

LBSTA SIX DEPARTURE (RNAV)

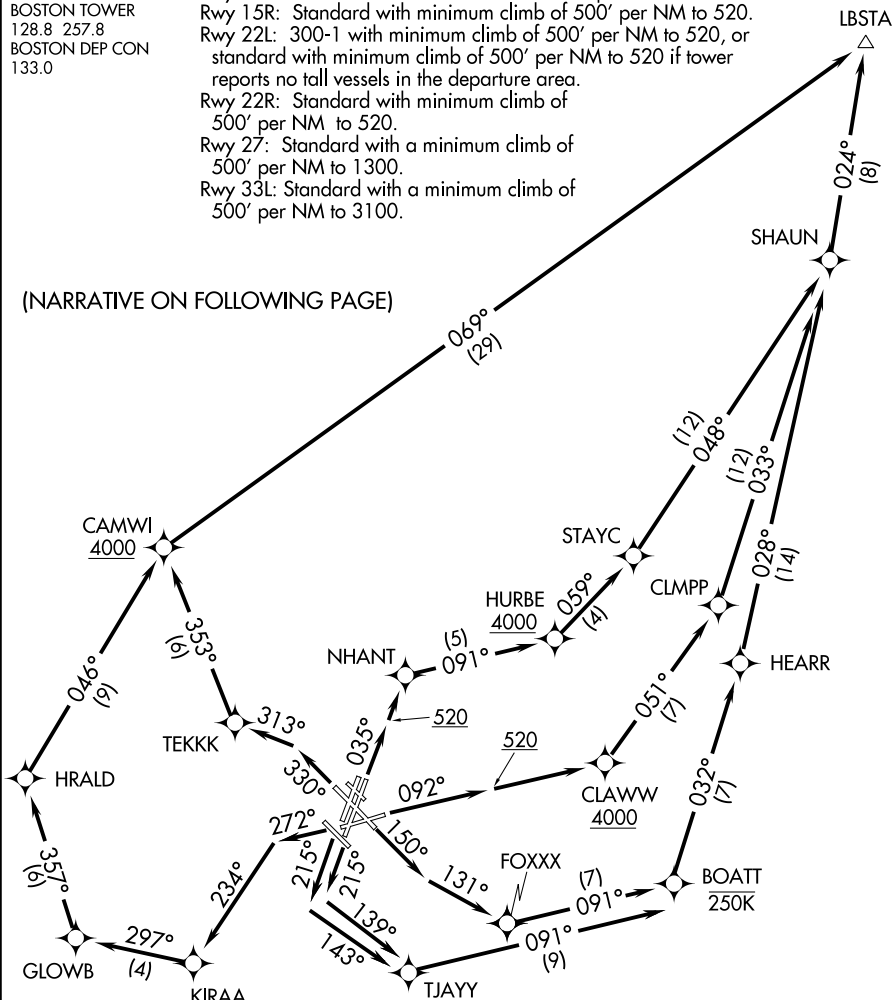
D-ATIS 135.0
CLNC DEL
121.65 257.8
CPDLC
GND CON
121.9
BOSTON TOWER
128.8 257.8
BOSTON DEP CON
133.0

TAKEOFF MINIMUMS:

Rwys 4L, 14, 15L, 32, 33R: NA - ATC.
Rwy 4R: Standard with minimum climb of 500' per NM to 3600.
Rwy 9: Standard with minimum climb of 500' per NM to 4000.
Rwy 15R: Standard with minimum climb of 500' per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 22R: Standard with minimum climb of 500' per NM to 520.
Rwy 27: Standard with a minimum climb of 500' per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500' per NM to 3100.

**TOP ALTITUDE:
5000**

(NARRATIVE ON FOLLOWING PAGE)



- NOTE: DME/DME/IRU or GPS required.
- NOTE: RADAR required for non-GPS equipped aircraft.
- NOTE: RNAV 1.
- NOTE: For Turbojets only.
- NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
- NOTE: Rwys 15R, 22L, 22R: Do not exceed 210K until 520' MSL.
- NOTE: At/Below 250K until BOATT.

NOTE: Chart not to scale.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

PATSS FIVE DEPARTURE (RNAV)
(PATSS5: PATSS) 120OCT17
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS

NOTE: DME/DME/IRU or GPS required.
 NOTE: RADAR required for non-GPS equipped aircraft.
 NOTE: RNAV 1.
 NOTE: For Turboprops only.
 NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
 NOTE: Rwy 15R, 22L, 22R: Do not exceed 210K until 520' MSL.
 NOTE: At/Below 250K until BRRRO.
 NOTE: At/Below 290K until HEWMO.

**TOP ALTITUDE:
5000**

D-ATIS 135.0
 CLNC DEL 121.65 257.8
 CPDLC
 GND CON 121.9
 BOSTON TOWER 128.8 257.8
 BOSTON DEP CON 133.0



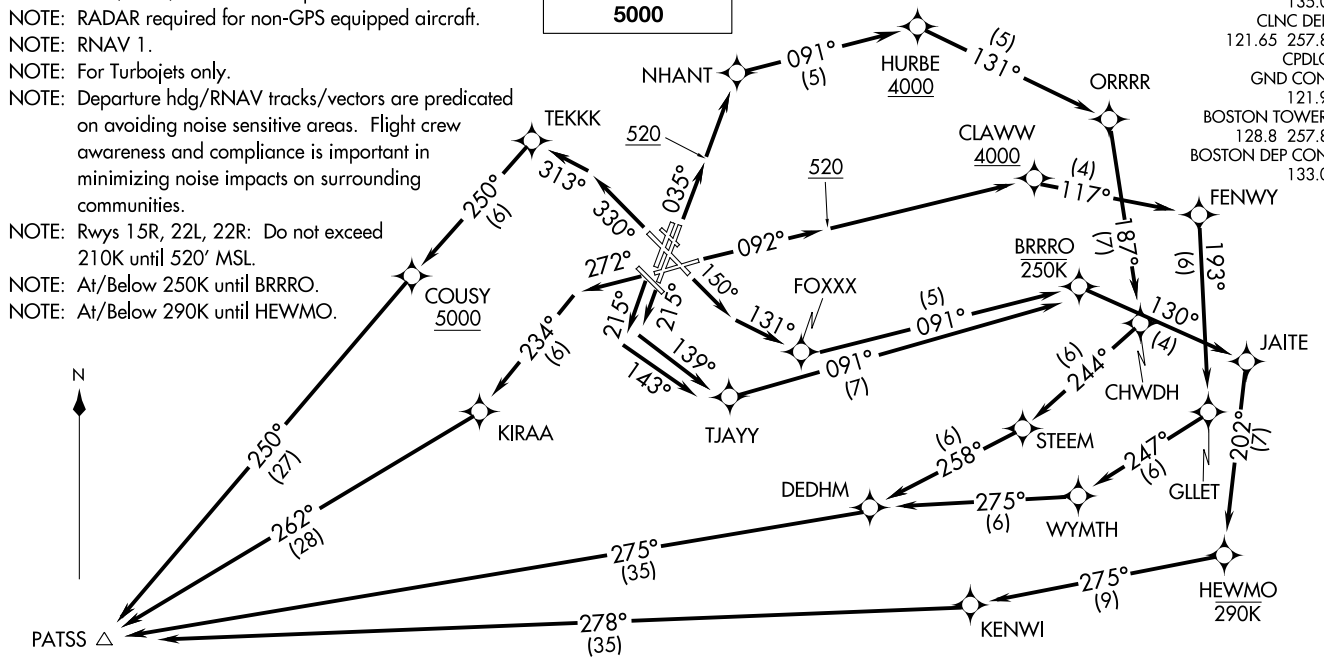
△ NELIE
 ◻ CARMEL CMK

TAKEOFF MINIMUMS:
 Rwys 4L, 14, 15L, 32, 33R: NA-ATC.
 Rwy 4R: Standard with minimum climb of 500' per NM to 3600.
 Rwy 9: Standard with minimum climb of 500' per NM to 4000.
 Rwy 15R: Standard with minimum climb of 500' per NM to 520.
 Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.
 Rwy 22R: Standard with minimum climb of 500' per NM to 520.
 Rwy 27: Standard with a minimum climb of 500' per NM to 1300.
 Rwy 33L: Standard with a minimum climb of 500' per NM to 4900.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(PATSS5: PATSS) 12855
 GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
 AL-58 (FAA)
 BOSTON, MASSACHUSETTS





DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....

TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 250° to cross COUSY at or above 5000, thence....

....on depicted route to SSOXS. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

WLYY THREE DEPARTURE (RNAV) (WLYY3, WLYY) 120CT17 GENERAL EDWARD LAWRENCE LOGAN INTL (BOS) BOSTON, MASSACHUSETTS

D-ATIS 135.0
CLINC DEL 121.65 257.8
CPDLC
GND CON 121.9
BOSTON TOWER 128.8 257.8
BOSTON DEP CON 133.0

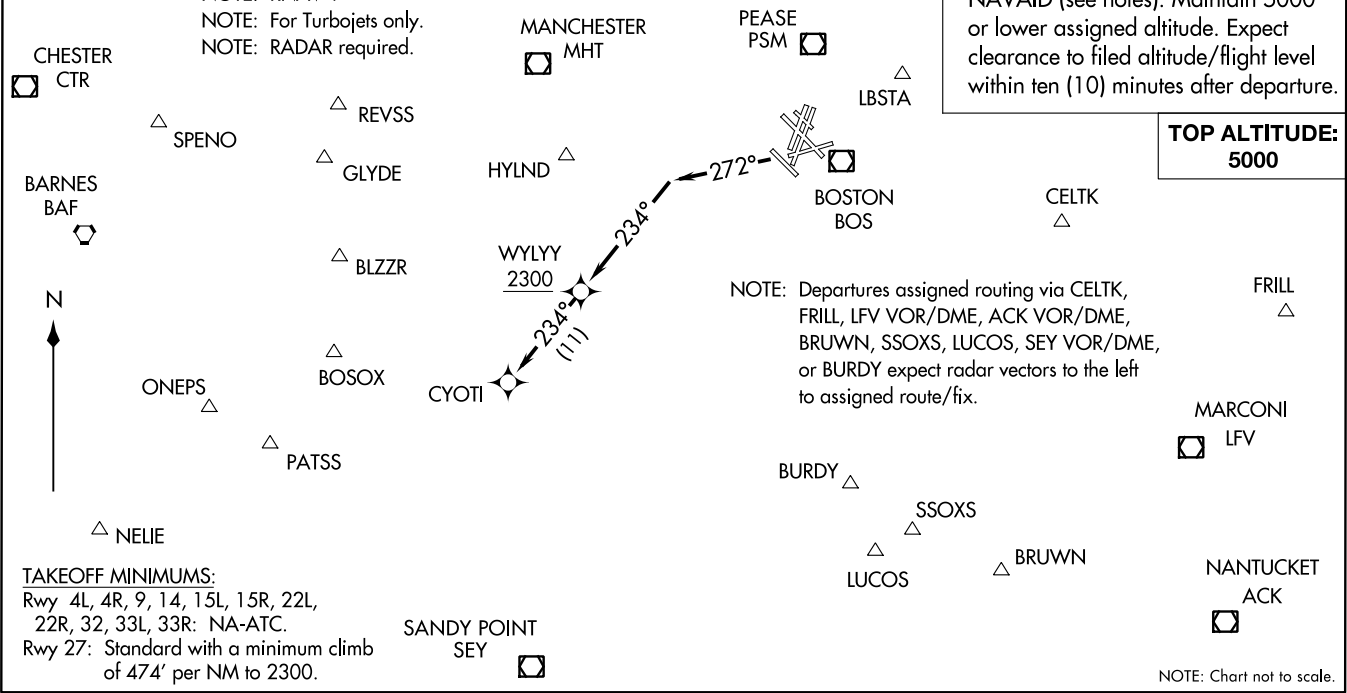
- NOTE: Departures assigned routing via LBSTA, PSM VOR/DME, MHT VOR/DME, HYLND, or REVSS direct SPENO; BLZZR direct ONEPS ; PATSS, GLYDE or BOSOX, expect radar vectors to the right to assigned route/fix.
- NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
- NOTE: ATC assigned. Do not file.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV 1
- NOTE: For Turbojets only.
- NOTE: RADAR required.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 27: Climb heading 272° to intercept course 234° to cross WLYY at or above 2300, then on depicted route to CYOTI, thence. . . .

. . . .expect vectors to assigned fix/NAVAID (see notes). Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

TOP ALTITUDE: 5000



NOTE: Departures assigned routing via CELTK, FRILL, LFB VOR/DME, ACK VOR/DME, BRUWN, SSOXS, LUCOS, SEY VOR/DME, or BURDY expect radar vectors to the left to assigned route/fix.

TAKEOFF MINIMUMS:
 Rwy 4L, 4R, 9, 14, 15L, 15R, 22L, 22R, 32, 33L, 33R: NA-ATC.
 Rwy 27: Standard with a minimum climb of 474' per NM to 2300.

NOTE: Chart not to scale.

(WLYY3, WLYY) 17285 GENERAL EDWARD LAWRENCE LOGAN INTL (BOS) BOSTON, MASSACHUSETTS (WLYY3, WLYY) 120CT17



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence. . . .

TAKEOFF RWY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence. . . .

TAKEOFF RWY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RWY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RWY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RWY 27: Climb heading 272° to intercept course 234° to KIRAA, thence. . . .

TAKEOFF RWY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 250° to cross COUSY at or above 5000, thence. . . .

. . . .on depicted route to PATSS. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

LOGAN TWO DEPARTURE

AL-58 (FAA)

BOSTON, MASSACHUSETTS



DEPARTURE ROUTE DESCRIPTION

JET AIRCRAFT:

TAKEOFF RWYS 4L/4R: Climb heading 035° to BOS 4 DME, then turn right heading 090°, thence

TAKEOFF RWY 9: Climb heading 092°, thence. . . .

TAKEOFF RWY 14: Climb heading 141° to BOS 1 DME, then turn left heading 120°, thence

TAKEOFF RWY 15R: Climb heading 150° to BOS 1 DME, then turn left heading 120°, thence

TAKEOFF RWYS 22L/22R: Climbing left turn heading 140°, thence

TAKEOFF RWY 27: Climb heading 272° to BOS 2.2 DME, then left turn heading 235°, thence

TAKEOFF RWY 33L: Climb heading 330° to BOS 2 DME, then left turn heading 316°, thence

NON JET AIRCRAFT: Climb on assigned heading, thence

. . . .expect RADAR vectors to assigned route/navaid/fix. Jet aircraft maintain 5000 or lower assigned altitude. Non jet aircraft maintain 3000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

TAKEOFF MINIMUMS:

Rwy 15L: NA-ATC.

Rwys 32: 33R: NA-Environmental.

Rwy 4R,15R: Standard.

Rwy 4L: 300-1 or standard with minimum climb of 358' per NM to 300.

Rwy 9: 300-1¼ or standard with minimum climb of 272' per NM to 300.

Rwy 14: 300-1¼ or standard with minimum climb of 225' per NM to 300, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to DER.

Rwy 22L: 300-1 or standard if tower reports no tall vessels in the departure area.

Rwy 22R: 400-1¾ or standard with minimum climb of 320' per NM to 500.

Rwy 27: Standard with minimum climb of 477' per NM to 1300.

Rwy 33L: 300-1¾ or standard with minimum climb of 224' per NM to 400, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

NOTE: RADAR required.

NOTE: DME required for jet aircraft departing Rwys 4L/R, 14, 15R, 27, 33L.

NOTE: Non RNAV equipped aircraft can expect vectors on assigned route.

NOTE: Jet aircraft departure headings/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities. Aircraft that are initially vectored over water can expect to cross the coastline above 6000 MSL before proceeding on course.

NOTE: BLZZR DEPARTURES expect vectors on BOS R-273, DME required.

NOTE: BRUWN DEPARTURES expect vectors on BOS R-159, DME required.

NOTE: CELTK DEPARTURES expect vectors on BOS R-114.

NOTE: HYLND DEPARTURES expect vectors on BOS R-350.

NOTE: PATSS DEPARTURES expect vectors on BOS R-260, DME required.

NOTE: REVSS DEPARTURES expect vectors on BOS R-285, DME required.

NOTE: SSOXS DEPARTURES expect vectors on BOS R-177, DME required.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence. . . .

TAKEOFF RWY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence. . . .

TAKEOFF RWY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RWY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence. . . .

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, thence. . . .

. . . . on depicted route to BLZZR. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....

TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520' MSL, thence....

TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520' MSL, thence....

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520' MSL, thence....

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKE, then on track 353° to cross CAMWI at or above 4000, thence....

....on depicted route to LBSTA. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

REVS FOUR DEPARTURE (RNAV)
(REVSS4.REVSS) 120CCT17
BOSTON, MASSACHUSETTS
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

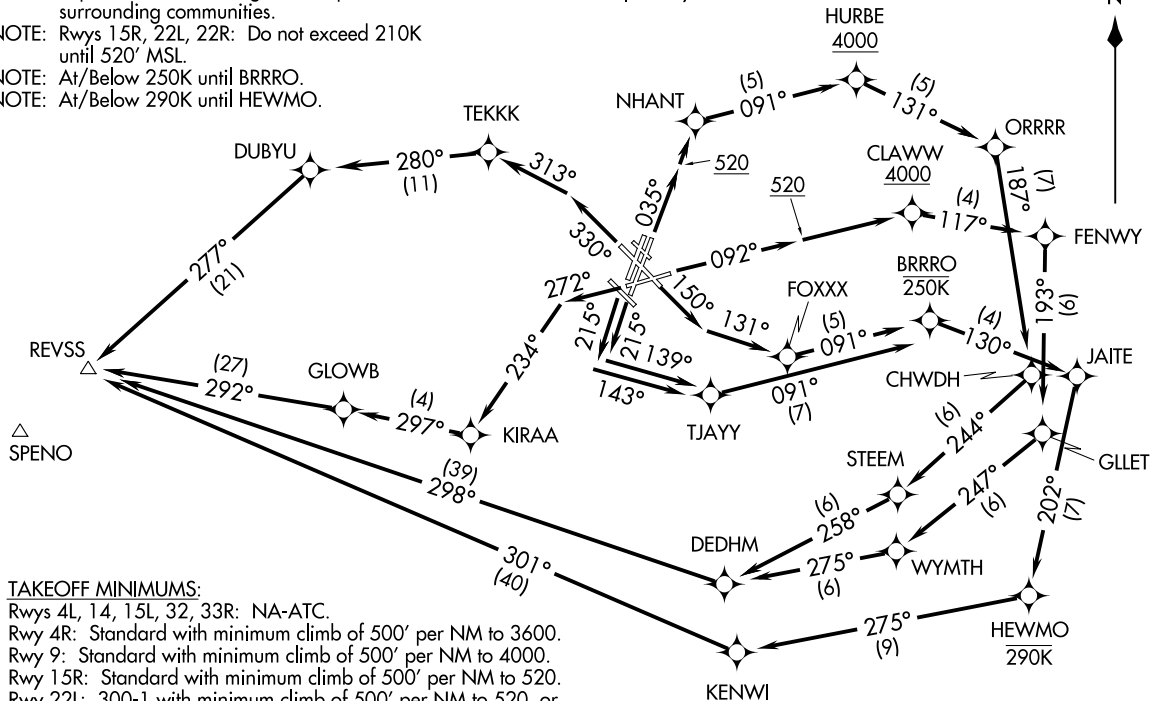
D-ATIS
135.0
CLNC DEL
121.65 257.8
CPDLC
GND CON
121.9
BOSTON TOWER
128.8 257.8
BOSTON DEP CON
133.0

NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
NOTE: Rwys 15R, 22L, 22R: Do not exceed 210K until 520' MSL.
NOTE: At/Below 250K until BRRRO.
NOTE: At/Below 290K until HEWMO.

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: RNAV 1.
NOTE: For Turbojets only.

TOP ALTITUDE:
5000

(REVSS4.REVSS) 1728S
REVS FOUR DEPARTURE (RNAV)
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
AL-58 (FAA)
BOSTON, MASSACHUSETTS



TAKEOFF MINIMUMS:
Rwys 4L, 14, 15L, 32, 33R: NA-ATC.
Rwy 4R: Standard with minimum climb of 500' per NM to 3600.
Rwy 9: Standard with minimum climb of 500' per NM to 4000.
Rwy 15R: Standard with minimum climb of 500' per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 22R: Standard with minimum climb of 500' per NM to 520.
Rwy 27: Standard with a minimum climb of 500' per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500' per NM to 520.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

LOGAN TWO DEPARTURE
(LOGAN2.BOS) 120CT17

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS

LOGAN TWO DEPARTURE
(LOGAN2.BOS) 18032

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS
AL-58 (FAA)

D-ATIS 135.0
CLNC DEL 121.65 257.8
CPDLC
GND CON 121.9
BOSTON TOWER 128.8 257.8
BOSTON DEP CON 133.0

**TOP ALTITUDE:
(JETS) 5000
(PROPS) 3000**

HANAA
N43°11.87'
W73°36.77'
L-32, H-11-12

MANCHESTER
114.4 MHT
Chan 91
N42°52.11'-W71°22.17'
L-32-33, H-11-12

KENNEBUNK
117.1 ENE
Chan 118
N43°25.54'-W70°36.81'
L-32, H-11-12

PEASE
116.5 PSM
Chan 112
N43°05.07'
W70°49.92'
L-32-33, H-11-12

CAMBRIDGE
115.0 CAM
Chan 97
N42°59.66'-W73°20.64'
L-32-34, H-11-12

REVSS
N42°20.73'
W71°48.62'
L-33-34
H-10-11-12

HYLND
N42°46.85'
W71°16.52'
L-33, H-11-12

LBSTAA
N42°48.00'
W70°36.81'
L-33
H-11-12

CHESTER
115.1 CTR
Chan 98
N42°17.48'
W72°56.96'
L-33-34, H-10-11-12

GLYDE
N42°16.06'
W71°48.71'
L-33-34

BOSTON
112.7 BOS
Chan 74

CELTK
N42°15.98'
W70°06.21'
L-33
H-11-12

BARNES
113.0 BAF
Chan 77
N42°09.72'-W72°42.97'
L-33-34, H-10-11-12

NELIE
N41°56.46'
W72°41.31'
L-33-34
H-10-11-12

BOSOX
N42°12.11'
W71°37.66'
L-33-34
H-10-11-12

BURDY
N41°57.32'
W70°57.12'
L-33,
H-10-11-12

DUNKK
N42°04.90'
W70°39.38'
L-33

FRILL
N42°13.79'
W69°49.48'
H-11-12

CARMEL
116.6 CMK
Chan 113
N41°16.81'-W73°34.88'
L-33-34, H-10-12

SANDY POINT
117.8 SEY
Chan 125
N41°10.04'-W71°34.58'
L-33, H-10-12

PROVIDENCE
115.6 PVD
Chan 103
N41°43.47'-W71°25.78'
L-33-34, H-10-11-12

MARTHAS VINEYARD
114.5 MVY
Chan 92
N41°23.77'-W70°36.76'
L-33, H-10-12

BRUWN
N41°36.16'
W70°13.76'
L-33,
H-10-11-12

MARCONI
114.7 LFV
Chan 94
N42°01.03'
W70°02.23'
L-33, H-10-11-12

NANTUCKET
116.2 ACK
Chan 109
N41°16.91'-W70°01.60'
L-33, H-10-12

(NOTES ON FOLLOWING PAGES)
(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

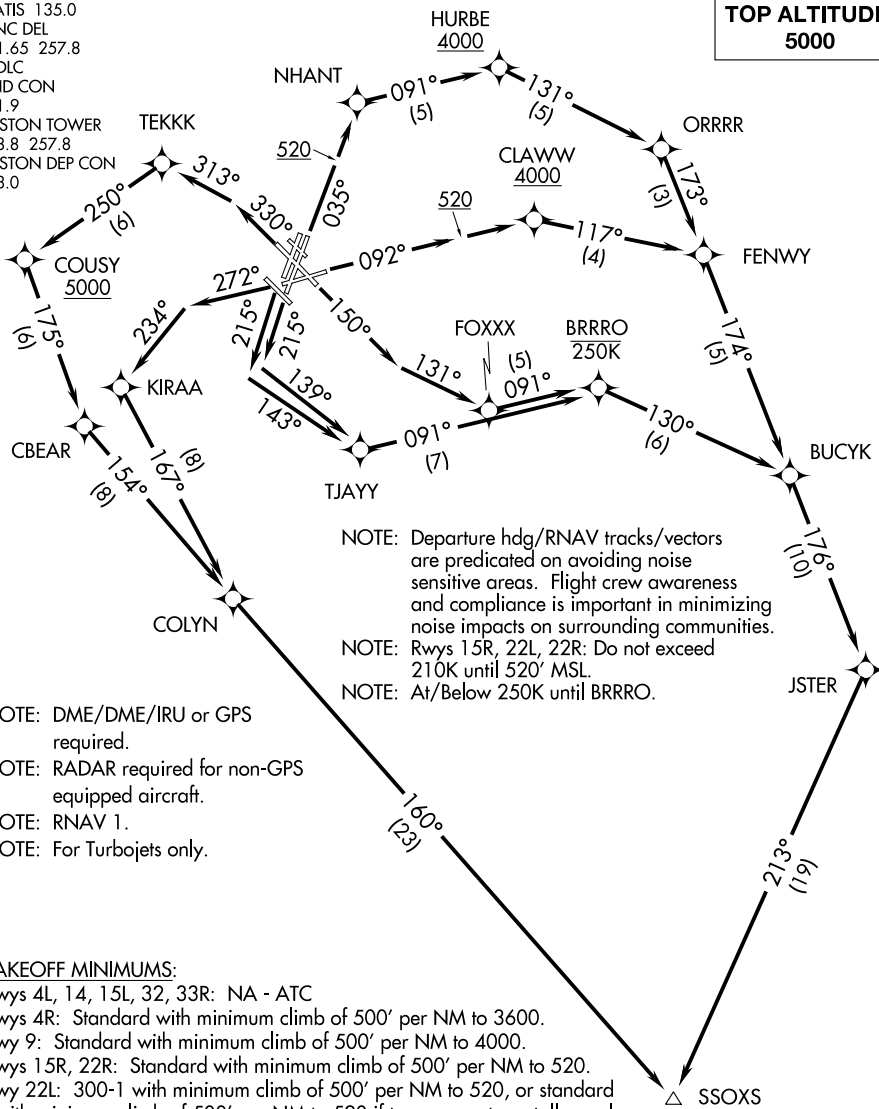
SSOXS FIVE DEPARTURE (RNAV)

AL-58 (FAA)

BOSTON, MASSACHUSETTS

**TOP ALTITUDE:
5000**

D-ATIS 135.0
CLNC DEL
121.65 257.8
CPDLC
GND CON
121.9
BOSTON TOWER
128.8 257.8
BOSTON DEP CON
133.0



NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.

NOTE: Rwys 15R, 22L, 22R: Do not exceed 210K until 520' MSL.

NOTE: At/Below 250K until BRRRO.

- NOTE: DME/DME/IRU or GPS required.
- NOTE: RADAR required for non-GPS equipped aircraft.
- NOTE: RNAV 1.
- NOTE: For Turbojets only.

TAKEOFF MINIMUMS:

- Rwys 4L, 14, 15L, 32, 33R: NA - ATC
- Rwys 4R: Standard with minimum climb of 500' per NM to 3600.
- Rwy 9: Standard with minimum climb of 500' per NM to 4000.
- Rwys 15R, 22R: Standard with minimum climb of 500' per NM to 520.
- Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.
- Rwy 27: Standard with a minimum climb of 500' per NM to 1300.
- Rwy 33L: Standard with a minimum climb of 500' per NM to 4900.



BUZR D

SANDY POINT
SEY

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

SSOXS FIVE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....

TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 353° to cross CAMWI at or above 4000, thence....

....on depicted route to HYLND. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

HYLND FIVE DEPARTURE (RNAV)

AL-58 (FAA)

BOSTON, MASSACHUSETTS

D-ATIS 135.0
CLNC DEL
121.65 257.8
CPDLC
GND CON
121.9
BOSTON TOWER
128.8 257.8
BOSTON DEP CON
133.0

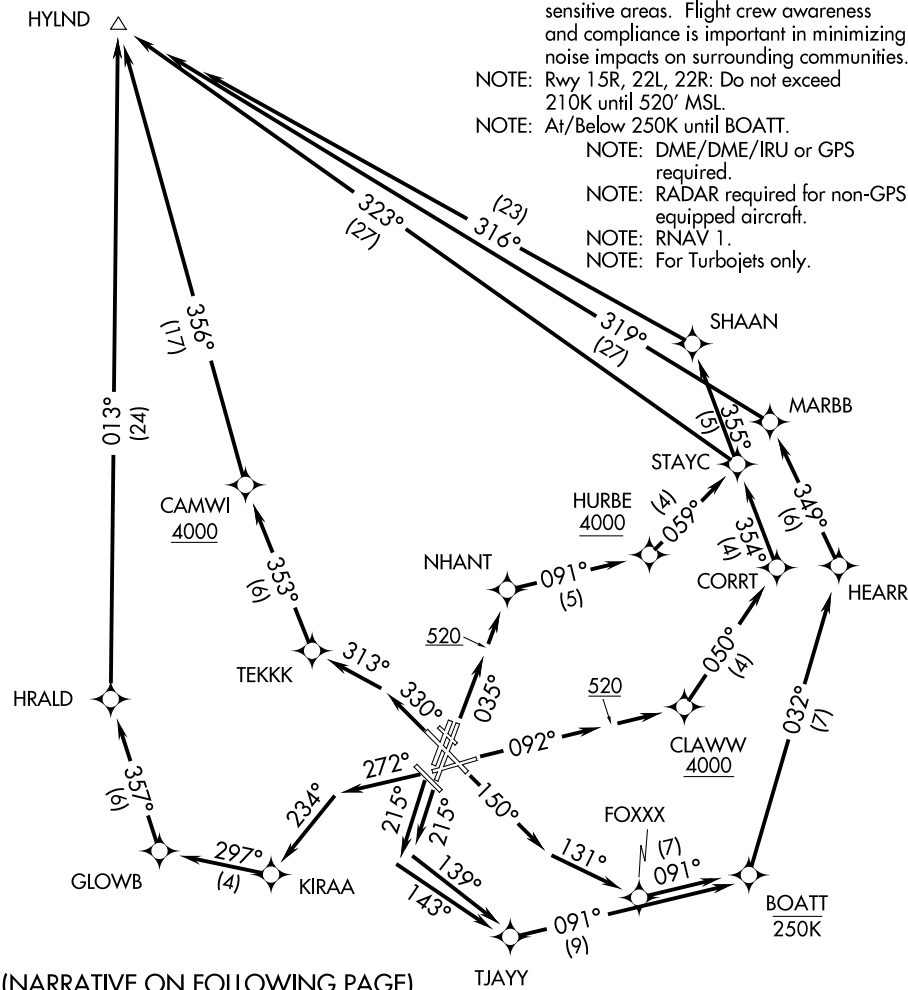
TAKEOFF MINIMUMS:

Rwys 4L, 14, 15L, 32, 33R: NA - ATC
Rwy 4R: Standard with minimum climb of 500' per NM to 3600.
Rwy 9: Standard with minimum climb of 500' per NM to 4000.
Rwys 15R, 22R: Standard with minimum climb of 500' per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 27: Standard with a minimum climb of 500' per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500' per NM to 3100.

TOP ALTITUDE:
5000

MANCHESTER MHT

- NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
- NOTE: Rwy 15R, 22L, 22R: Do not exceed 210K until 520' MSL.
- NOTE: At/Below 250K until BOATT.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RADAR required for non-GPS equipped aircraft.
- NOTE: RNAV 1.
- NOTE: For Turbojets only.



NOTE: Chart not to scale.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence. . . .

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence. . . .

TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence. . . .

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 250° to cross COUSY at or above 5000, thence. . . .

. . . . on depicted route to CELTK. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

CELTK FIVE DEPARTURE (RNAV)
(CELTK5, CELTK) 120CT17

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS

D-ATIS 135.0
CLNC DEL
121.65 257.8
CPDLC
GND CON
121.9
BOSTON TOWER
128.8 257.8
BOSTON DEP CON
133.0

TOP ALTITUDE:
5000

TAKEOFF MINIMUMS:

Rwys 4L, 14, 15L, 32, 33R: NA-ATC.

Rwy 4R: Standard with minimum climb of 500' per NM to 3600.

Rwy 9: Standard with minimum climb of 500' per NM to 4000.

Rwy 15R: Standard with minimum climb of 500' per NM to 520.

Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.

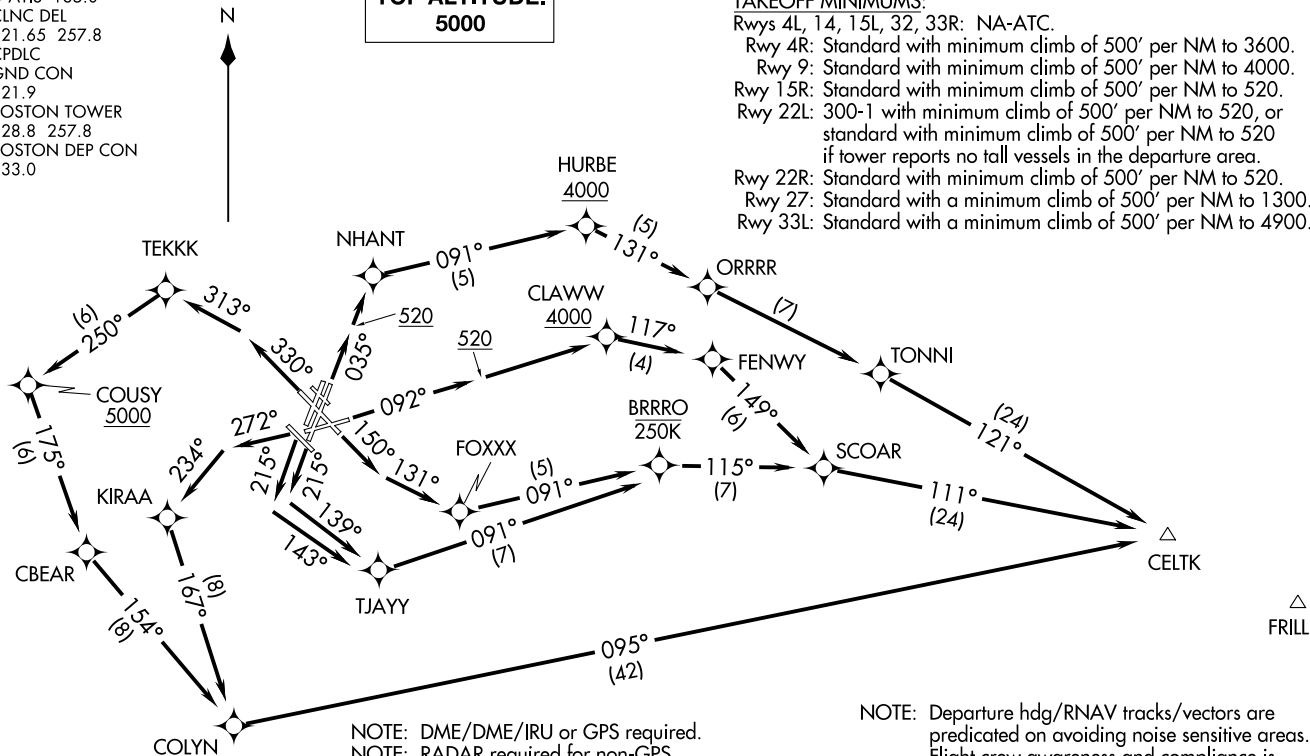
Rwy 22R: Standard with minimum climb of 500' per NM to 520.

Rwy 27: Standard with a minimum climb of 500' per NM to 1300.

Rwy 33L: Standard with a minimum climb of 500' per NM to 4900.

CELTK FIVE DEPARTURE (RNAV)
17285

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
AL-58 (FAA)
BOSTON, MASSACHUSETTS



- NOTE: DME/DME/IRU or GPS required.
- NOTE: RADAR required for non-GPS equipped aircraft.
- NOTE: RNAV 1.
- NOTE: For Turbojets only.

- NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
- NOTE: Rwys 15R, 22L, 22R: Do not exceed 210K until 520' MSL.
- NOTE: At/Below 250K until BRRRO.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....

TAKEOFF RWY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....

TAKEOFF RWY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....

TAKEOFF RWY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RWY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RWY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....

TAKEOFF RWY 33L: Climb heading 330° to intercept course 313° to TEKKK, thence....

....on depicted route to REVSS. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

NE-1, 01 FEB 2018 to 01 MAR 2018

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(BLZZR4,BLZZR) 12OCT17

BLZZR FOUR DEPARTURE (RNAV)

BOSTON, MASSACHUSETTS
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

D-ATIS
135.0
CLNC DEL
121.65 257.8
CPDLC
GND CON
121.9
BOSTON TOWER
128.8 257.8
BOSTON DEP CON
133.0

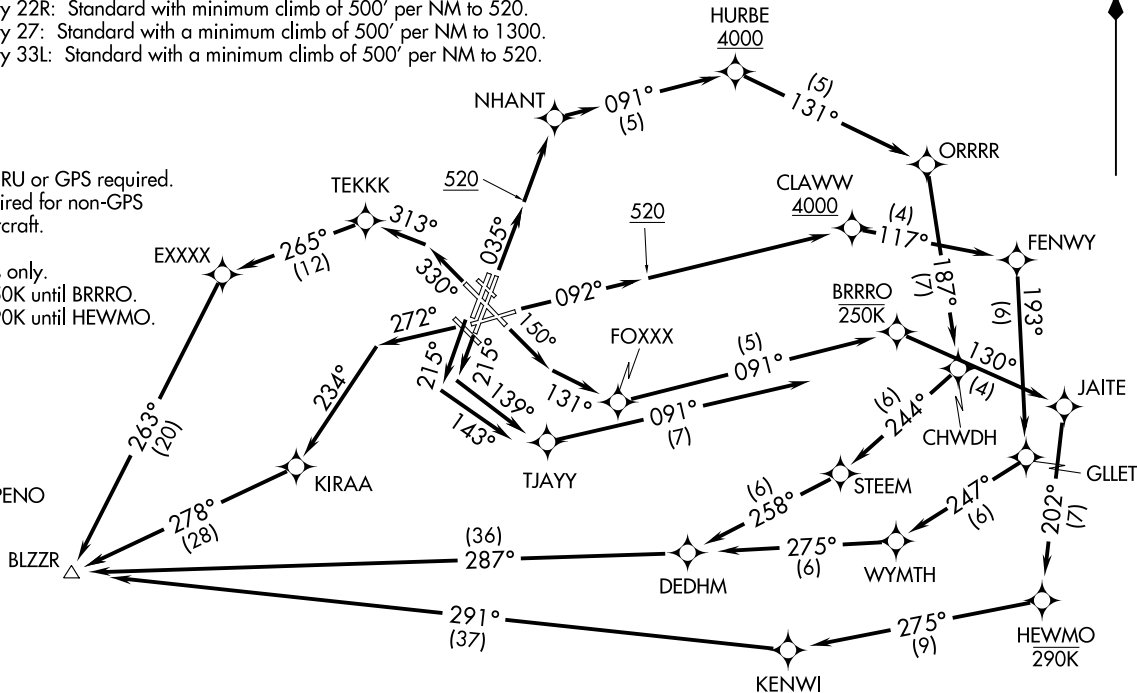
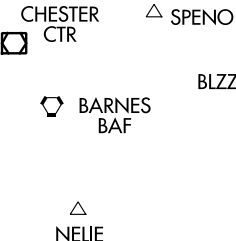
TAKEOFF MINIMUMS:

Rwys 4L, 14, 15L, 32, 33R: NA-ATC.
Rwy 4R: Standard with minimum climb of 500' per NM to 3600.
Rwy 9: Standard with minimum climb of 500' per NM to 4000.
Rwy 15R: Standard with minimum climb of 500' per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 22R: Standard with minimum climb of 500' per NM to 520.
Rwy 27: Standard with a minimum climb of 500' per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500' per NM to 520.

NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
NOTE: Rwy 15R, 22L, 22R: Do not exceed 210K until 520' MSL.

TOP ALTITUDE:
5000

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: RNAV 1.
NOTE: For Turbojets only.
NOTE: At/Below 250K until BRRRO.
NOTE: At/Below 290K until HEWMO.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(BLZZR4,BLZZR) 17285

BOSTON, MASSACHUSETTS
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
AL-58 (FAA)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....

TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKE, then on track 250° to cross COUSY at or above 5000, thence....

....on depicted route to BRUWN. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

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HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
BEDFORD, MA LAURENCE G. HANSCOM FIELD (BED)	HS 1	Confusing twy int.
BEVERLY, MA BEVERLY RGNL (BVY)	HS 1 HS 2	Rwy hold line at East Ramp exit. Int of Twy E and Twy H.
BOSTON, MA GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)	HS 1 HS 2 HS 3 HS 4	Maintain vigilance when taxiing on Rwy 15L-33R apch Rwy 04L-22R. Maintain vigilance on Twy C when apch Rwy 04L-22R. Maintain vigilance on Twy E and Twy K when apch Rwy 04L-22R. Maintain vigilance on Twy C when apch Rwy 09-27. Maintain vigilance on Twy D when apch Rwy 15R-33L.
BURLINGTON, VT BURLINGTON INTL (BTV)	HS 1 HS 2	Wrong rwy departure risk. Rwy 01-19 and Twy C.
DANBURY, CT DANBURY MUNI (DXR)	HS 1 HS 2 HS 3 HS 4	Confusing twy configuration. Area not visible from the twr. Active ramp adjacent to twy. Hold position on Twy C for Rwy 26.
GROTON (NEW LONDON), CT GROTON-NEW LONDON (GON)	HS 1 HS 2	Rwy 15-33 at Twy C and Twy B. Rwy 15-33 at Twy J and Twy B.
HARTFORD, CT HARTFORD-BRAINARD (HFD)	HS 1	Twy A and Twy H near the helipad.
LAWRENCE, MA LAWRENCE MUNI (LWM)	HS 1 HS 2 HS 3	Rwy 05-23 and Twy E. Rwy 14-32 and Twy A. Rwy 05-23 and Twy D.
LEBANON, NH LEBANON MUNI (LEB)	HS 1 HS 2 HS 3	Unusual location for rwy hold position marking on Twy B for Rwy 25. A portion of Twy B and North Ramp not visible from the control twr. Acft routinely back taxi on Rwy 18-36.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
MANCHESTER, NH MANCHESTER (MHT)	HS 1	Confusing rwy hold marking location.
	HS 2	Rwy holding position marking on edge of Twy A at Twy P and Twy U.
NANTUCKET, MA NANTUCKET MEMORIAL (ACK)	HS 1	High traffic area.
	HS 2	High traffic area.
	HS 3	High traffic area.
NORWOOD, MA NORWOOD MEMORIAL (OWD)	HS 1	Hold position on Twy A for Rwy 35.
PORTLAND, ME PORTLAND INTL JETPORT (PWM)	HS 1	Twy C and Twy A in close proximity of Rwy 11-29.
	HS 2	Acft taxiing northbound on Twy C must maintain vigilance apch the Rwy 18 hold short marking which is located further south on Twy C than most pilots would anticipate.
PROVIDENCE, RI THEODORE FRANCIS GREEN STATE (PVD)	HS 1	Complex twy int in close proximity of rwy.
	HS 2	Complex rwy/twy int.
	HS 3	Complex twy int in close proximity of rwy.
	HS 4	Maintain vigilance dep northwest ramp. Twy S is immed adj to northwest ramp. Acft could inadvertently enter Rwy 16-34.
WESTFIELD/SPRINGFIELD, MA WESTFIELD-BARNES RGNL (BAF)	HS 1	Maintain vigilance departing ramp. Twy A and Twy B complex int in close proximity to Rwys.
	HS 2	Unusual location for Rwy hold position marking on Twy A for Rwy 15.
WINDSOR LOCKS, CT BRADLEY INTL (BDL)	HS 1	Twy C and Twy E complex int in close proximity to Rwy 01-19.
	HS 2	Aircraft on Twy S missing Twy C may enter Rwy 24.
	HS 3	Aircraft on Twy J missing Twy S may enter Rwy 33.


*See appropriate Chart Supplement HOT SPOT table for additional information.

WAAS CH 50124 W04A	APP CRS 035°	Rwy Idg TDZE Apt Elev	04R 8851 18 19	04L 7861 14 19
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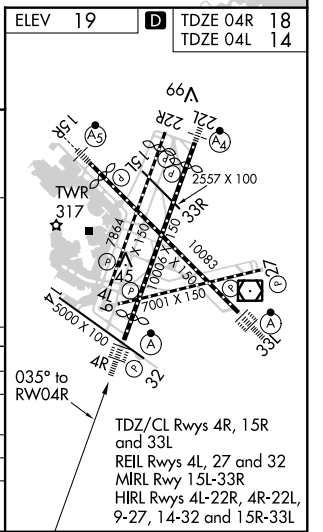
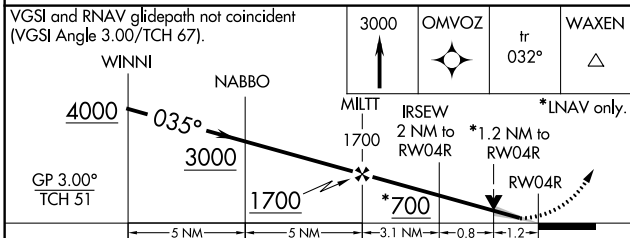
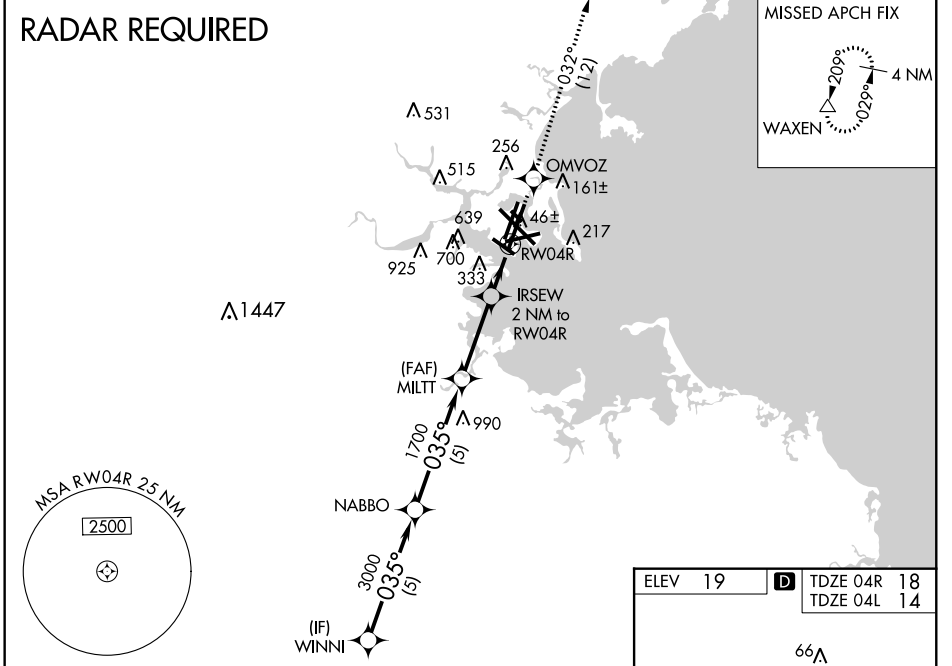
RNAV (GPS) RWY 4R

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling NA to Rwy 14. Circling NA for Cats C and D west of Rwy 4L and 15R. When control tower reports tall vessels in approach area: increase LPV DA to 374 and all Cats visibility to RVR 4000, increase LNAV Cats A and B visibility to RVR 4000; Rwy 4R helicopter visibility reduction below RVR 4000 NA; for inop ALS, increase LPV all Cats visibility to RVR 6000 and LNAV Cats A and B visibility to RVR 5000. When vessels taller than 144 feet present, LPV and LNAV/VNAV NA. Sidestep 4L NA when Rwy 4L VGSI inop.

ALS-F-2

MISSED APPROACH:
 Climb to 3000 direct OMVOZ and on track 032° to WAXEN and hold.

D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8	CPDLC
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CATEGORY	A	B	C	D
LPV DA		218/18	200 (200-1/2)	
LNAV/VNAV DA		514/60	496 (500-1 1/4)	
LNAV MDA	480/24	462 (500-1/2)	480/50	462 (500-1)
SIDESTEP 04L		700-2 1/2	686 (700-2 1/2)	
C CIRCLING	960-1 1/4 941 (1000-1 1/4)	1060-1 1/2 1041 (1100-1 1/2)	640-1 3/4 621 (700-1 3/4)	640-2 621 (700-2)

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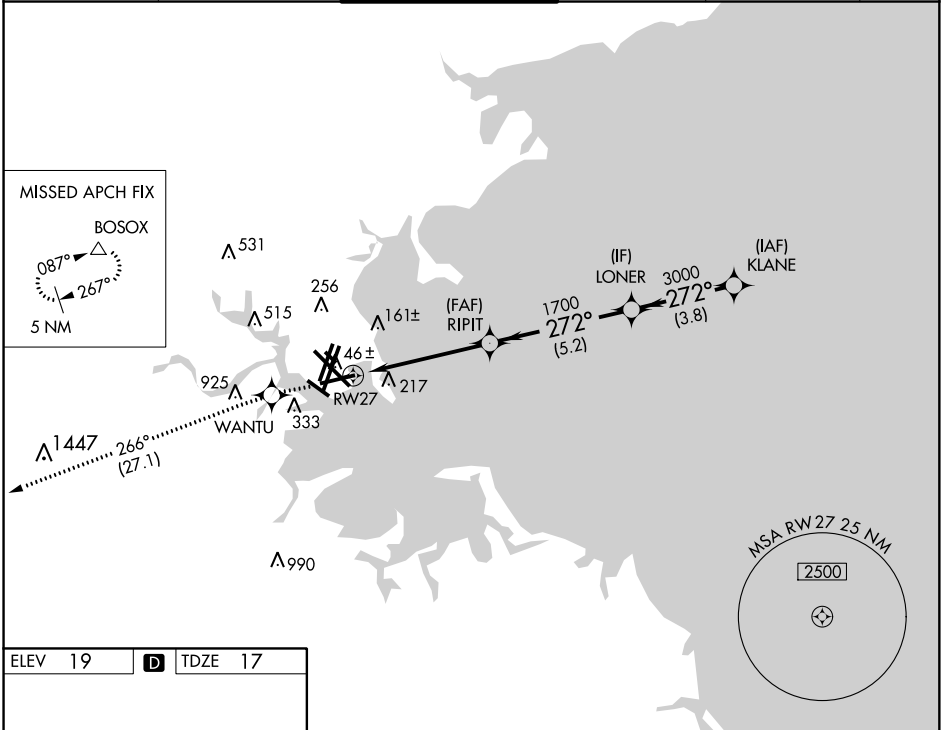
NE-1, 01 FEB 2018 to 01 MAR 2018

APP CRS	Rwy Idg	7000
272°	TDZE	17
	Apt Elev	19

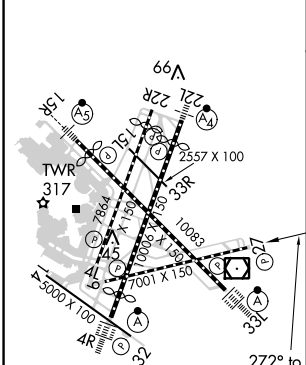
RNAV (GPS) RWY 27

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

<p>⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling NA to Rwy 14. Circling NA for Cats C and D west of Rwys 4L and 15R.</p>			<p>MISSED APPROACH: Climb to 3000 direct WANTU and on track 266° to BOSOX and hold.</p>		
D-ATIS	BOSTON APP CON	BOSTON TOWER	GND CON	CLNC DEL	CPDLC
135.0	120.6 263.1	128.8 257.8	121.9	121.65 257.8	



ELEV 19	D	TDZE 17
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TDZ/CL Rwys 4R, 15R and 33L

REIL Rwys 4L, 27 and 32

MIRL Rwy 15L-33R

HIRL Rwys 4L-22R, 4R-22L, 9-27, 14-32 and 15R-33L

3000	WANTU	tr 266°	BOSOX	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).		
				KLANE		
*LNAV only.						
	RIPIT	LONER		4000		
	1700	3000				
	1700			GP 3.00° TCH 57		
	1.7 NM	3.3 NM	5.2 NM	3.8 NM		
CATEGORY	A		B		C	D
LNAV/ VNAV DA	504-1 3/4				487 (500-1 3/4)	
LNAV MDA	640-1		623 (700-1)		640-1 3/4	640-2
	941 (1000-1 1/4)		1041 (1100-1 1/2)		623 (700-1 3/4)	623 (700-2)
CIRCLING	960-1 1/4		640-1 3/4		621 (700-1 3/4)	640-2
	941 (1000-1 1/4)		621 (700-1 3/4)		621 (700-2)	621 (700-2)

NE-1, 01 FEB 2018 to 01 MAR 2018

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APP CRS	Rwy Idg	5000
331°	TDZE	19
	Apt Elev	19

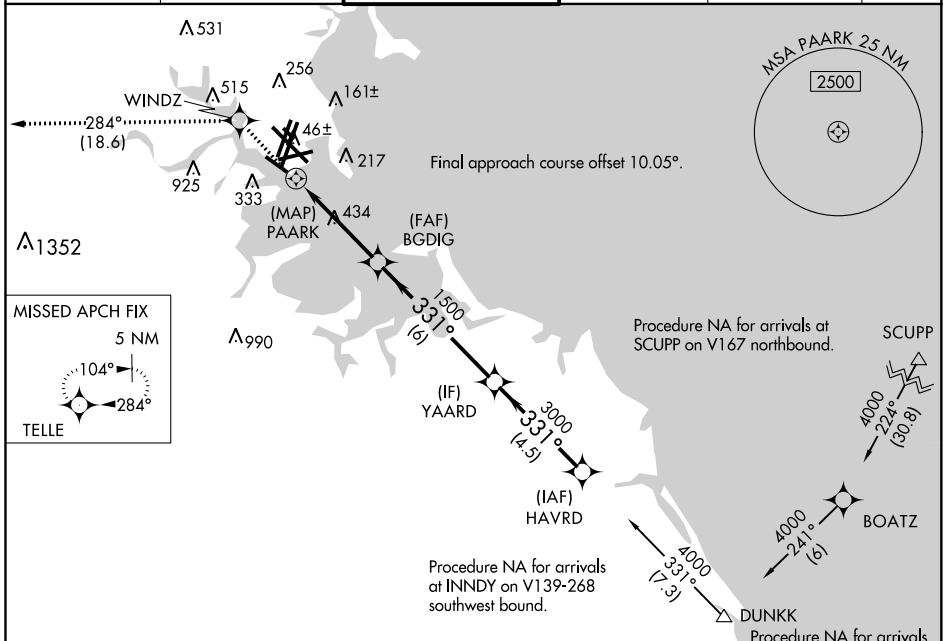
RNAV (GPS) RWY 32

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

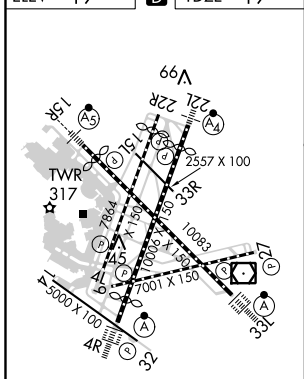
▼ DME/DME RNP-0.3 NA. Circling NA to Rwy 14.
▲ Circling NA for Cats C and D west of Rwys 4L and 15R.

MISSED APPROACH: Climb to 3000 direct WINDZ and on track 284° to TELLE and hold.

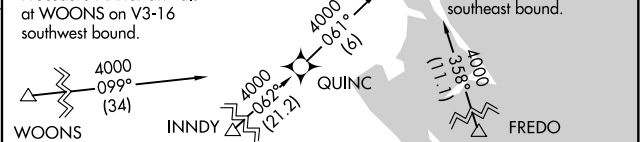
D-ATIS	BOSTON APP CON	BOSTON TOWER	GND CON	CLNC DEL	CPDLC
135.0	120.6 263.1	128.8 257.8	121.9	121.65 257.8	



ELEV 19	D	TDZE 19
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TDZ/CL Rwys 4R, 15R and 33L
 REIL Rwys 4L, 27 and 32
 MRL Rwy 15L-33R
 HIRL Rwys 4L-22R, 4R-22L, 9-27, 14-32 and 15R-33L



3000	WINDZ	tr 284°	TELLE	YAARD	HAVRD	DUNKK
				3000	4000	4000
				1.9 NM to PAARK		
				2.91°		
				TCH 45		
				0.5 1.9 2.3 NM	6 NM	4.5 NM 7.3 NM

CATEGORY	A	B	C	D
LNAV MDA	820-1 801 (900-1)	820-1¼ 801 (900-1½)	820-2½	801 (900-2½)
C CIRCLING	960-1¼ 941 (1000-1¼)	1060-1½ 1041 (1100-1½)	820-2½	801 (900-2½)

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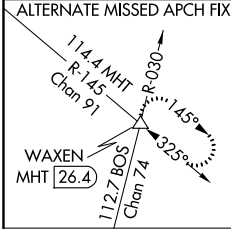
NE-1, 01 FEB 2018 to 01 MAR 2018

LOC/DME I-BOS 110.3 Chan 40	APP CRS 035°	Rwy Idg 8851 TDZE 18 Apt Elev 19
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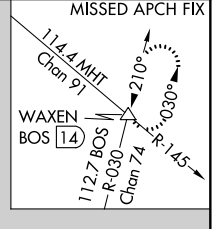
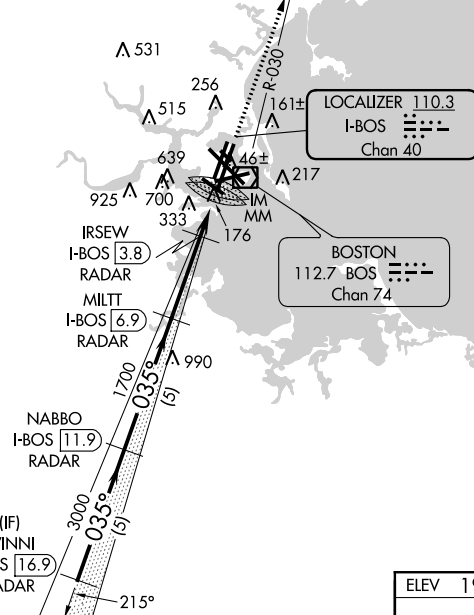
ILS or LOC RWY 4R
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

<p>⚠ Circling NA for Cats C and D west of Rwy 4L and 15R. Circling NA to Rwy 14. # For inoperative ALS, increase S-ILS 4R all Cats visibility to RVR 6000, and S-LOC 4R Cats A and B visibility to RVR 5000; Rwy 4R helicopter visibility below 4000 RVR NA. † When vessels taller than 144 feet present, S-ILS 4R NA.</p>	<p>ALSF-2 </p>	<p>MISSED APPROACH: Climb to 3000 on BOS VOR/DME R-030 to WAXEN INT/BOS 14 DME and hold.</p>
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D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CINC DEL 121.65 257.8	CPDLC
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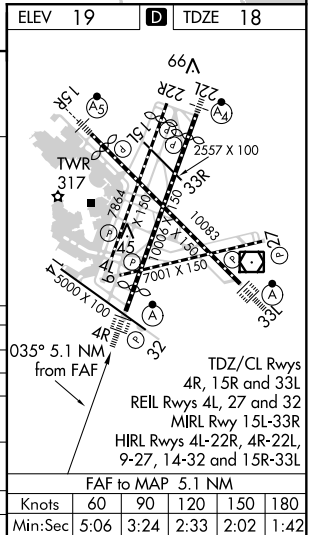
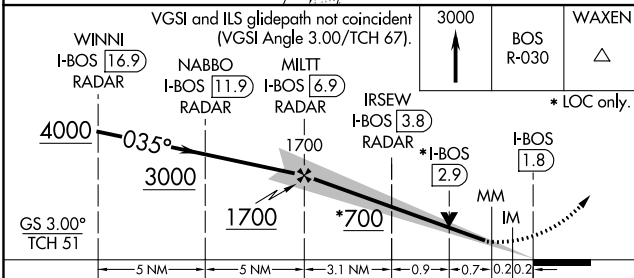


RADAR REQUIRED



NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018



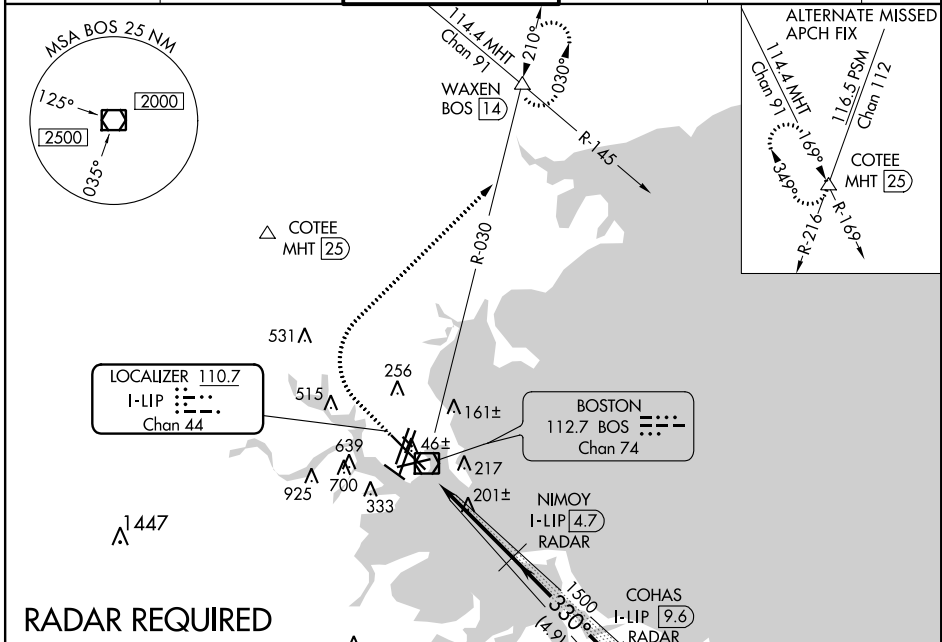
CATEGORY	A	B	C	D
S-ILS 4R		218/18	200 (200-1/2)	
S-LOC 4R	440/24	422 (500-1/2)	440/40	422 (500-3/4)
CIRCLING	960-1 1/4 941 (1000-1 1/4)	1060-1 1/2 1041 (1100-1 1/2)	640-1 3/4 621 (700-1 3/4)	640-2 621 (700-2)
† APPROACH MINIMA WHEN CONTROL TOWER REPORTS TALL VESSELS IN APPROACH AREA				
S-ILS 4R #		374/40	356 (400-3/4)	
S-LOC 4R #		440/40	422 (500-3/4)	

LOC/DME	I-LIP	APP CRS	Rwy Idg	10083
110.7		330°	TDZE	16
Chan 44			Apt Elev	19

ILS RWY 33L (SA CAT I)

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

DME or RADAR required. Requires specific OPSEC, MSPEC, or LOA approval and use of HUD to DH.	ALSIF-2	MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on BOS VOR/DME R-030 to WAXEN INT/BOS 14 DME and hold.			
		D-ATIS	BOSTON APP CON	BOSTON TOWER	GND CON
135.0	120.6 263.1	128.8 257.8	121.9	121.65 257.8	

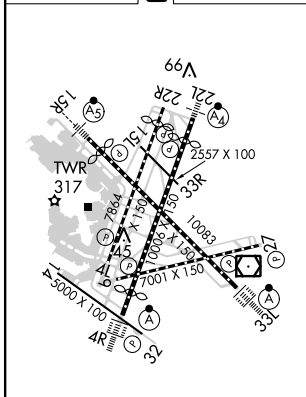


NE-1, 01 FEB 2018 to 01 MAR 2018

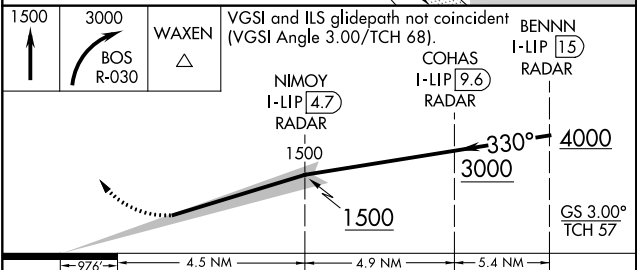
NE-1, 01 FEB 2018 to 01 MAR 2018

RADAR REQUIRED

ELEV 19	D	TDZE 16
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TDZ/CL Rwys 4R, 15R and 33L
 REIL Rwys 4L, 27 and 32
 MIRL Rwy 15L-33R
 HIRL Rwys 4L-22R, 4R-22L,
 9-27, 14-32 and 15R-33L



CATEGORY	A	B	C	D
S-ILS 33L	RA 166/14 150 DA 166			

SA CATEGORY I - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

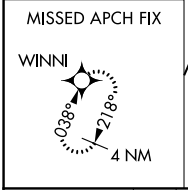
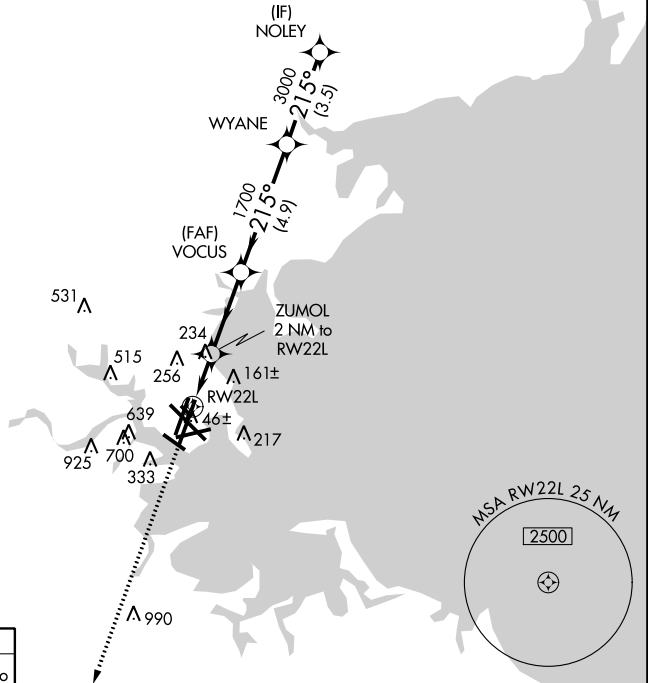
WAAS CH 45925 W22A	APP CRS 215°	Rwy Idg TDZE 16 Apt Elev 19	8806
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RNAV (GPS) RWY 22L

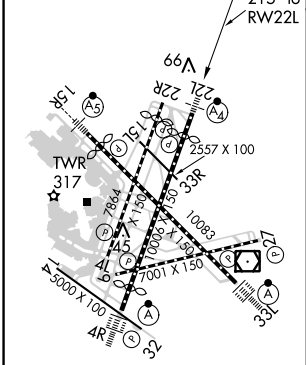
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

<p>⚠ DME/DME RNP-0.3 NA. Circling NA to Rwy 14. Circling NA for Cats C and D west of Rwy 4L and 15R. For inoperative ALS, increase LNAV/VNAV Cat D visibility to RVR 6000 and LNAV Cat D visibility to 1½ SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C (9°F) or above 43°C (109°F).</p>	<p>MALSF</p>	<p>MISSED APPROACH: Climb to 3000 direct WINNI and hold.</p>			
		D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9

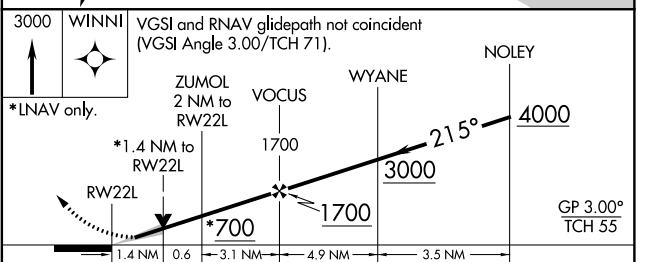
RADAR REQUIRED



ELEV 19	D	TDZE 16
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TDZ/CL Rwy 4R, 15R and 33L
 REIL Rwy 4L, 27 and 32
 MIRL Rwy 15L-33R
 HIRL Rwy 4L-22R, 4R-22L,
 9-27, 14-32 and 15R-33L



CATEGORY	A	B	C	D
LPV DA		216/40	200 (200-¾)	
LNAV/VNAV DA		408/50	392 (400-1)	
LNAV MDA	540/40	524 (600-¾)	540-1¼	524 (600-1¼)
CIRCLING	960-1¼ 941 (1000-1¼)	1060-1½ 1041 (1100-½)	640-1¾ 621 (700-1¾)	640-2 621 (700-2)

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

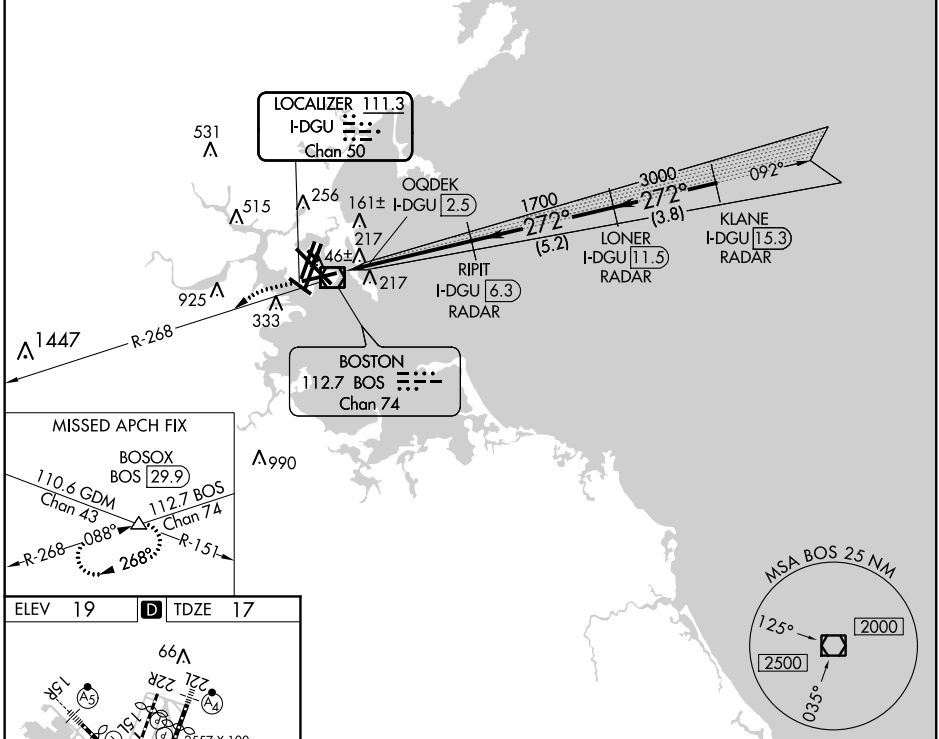
LOC/DME I-DGU 111.3 Chan 50	APP CRS 272°	Rwy ldg 7000 TDZE 17 Apt Elev 19
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ILS or LOC RWY 27

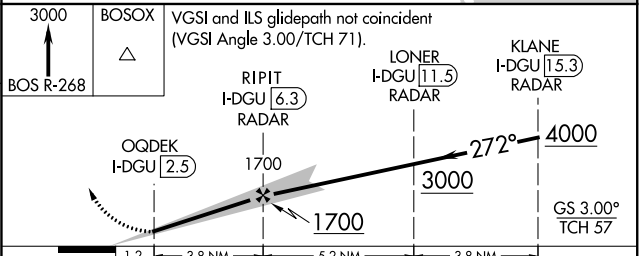
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

<p>⚠ Circling to Rwy 14 NA. Circling NA for Cats C and D west of Rwys 4L and 15R.</p>	<p>MISSED APPROACH: Climb to 3000 on BOS VOR/DME R-268 to BOSOX INT/BOS 29.9 DME and hold.</p>				
	D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8

RADAR REQUIRED



ELEV 19	D	TDZE 17			
<p>TDZ/CL Rwys 4R, 15R and 33L REIL Rwys 4L, 27 and 32 MIRL Rwy 15L-33R HIRL Rwys 4L-22R, 4R-22L, 9-27, 14-32 and 15R-33L</p> <p>FAF to MAP 3.8 NM</p>					
Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16



CATEGORY	A	B	C	D
S-ILS 27		460-1½	443 (500-1½)	
S-LOC 27		460-1½	443 (500-1½)	
CIRCLING	960-1½ 941 (1000-1½)	1060-1½ 1041 (1100-1½)	640-1¾ 621 (700-1¾)	640-2 621 (700-2)

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

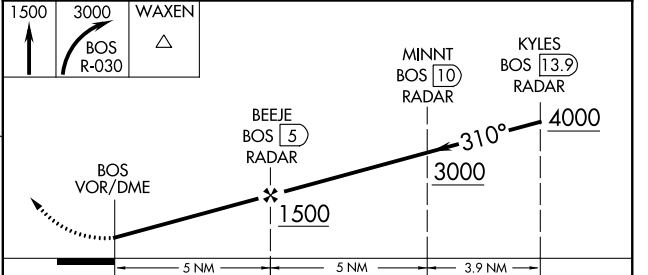
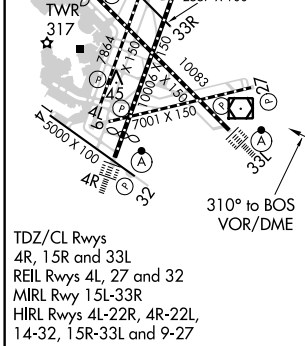
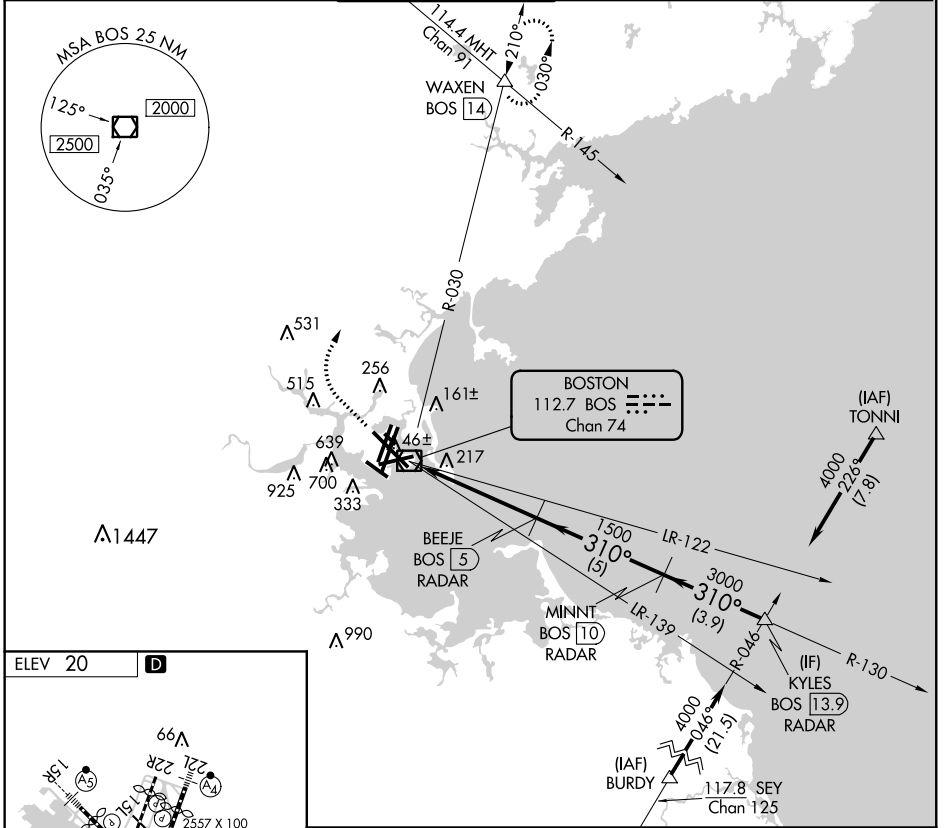
VOR/DME BOS 112.7 Chan 74	APP CRS 310°	Rwy ldg TDZE Apt Elev N/A N/A 20
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VOR/DME-A

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

▼ Circling NA to Rwy 14. ▲ Circling NA for Cats C and D west of Rwys 4L and 15R.	MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on BOS VOR/DME R-030 to WAXEN INT/BOS 14 DME and hold.
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D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8	CPDLC
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CATEGORY	A	B	C	D
CIRCLING	960-1¼ 940 (1000-1¼)	1060-1½ 1040 (1100-1½)	640-1¾ 620 (700-1¾)	640-2 620 (700-2)

NE-1, 01 FEB 2018 to 01 MAR 2018

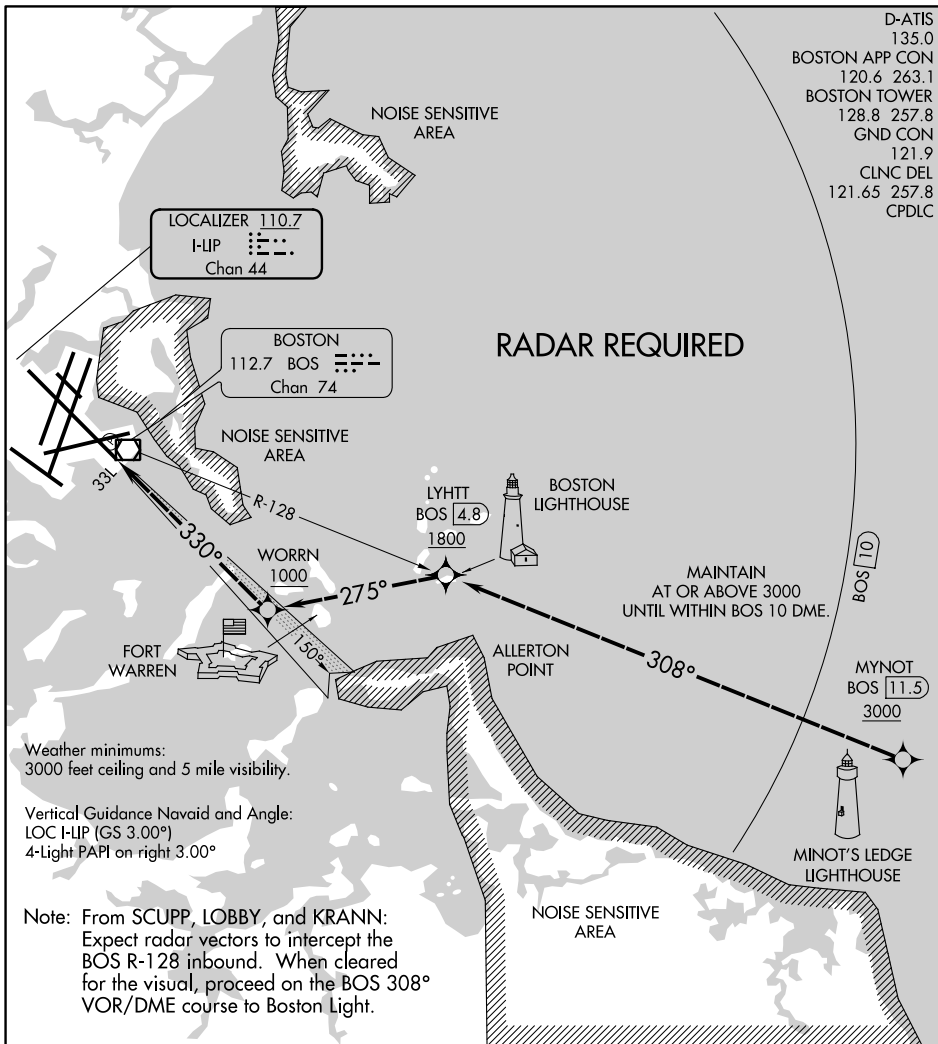
NE-1, 01 FEB 2018 to 01 MAR 2018

17285

LIGHT VISUAL RWY 33L

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
AL-58 (FAA) BOSTON, MASSACHUSETTS

D-ATIS
135.0
BOSTON APP CON
120.6 263.1
BOSTON TOWER
128.8 257.8
GND CON
121.9
CLINC DEL
121.65 257.8
CPDLC



NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

NM	1	2	3	4	5	6	7	8	9	10	11	
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LIGHT VISUAL RWY 33L

Amdt 1A 12OCT17

BOSTON, MASSACHUSETTS
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
42°22'N-71°00'W

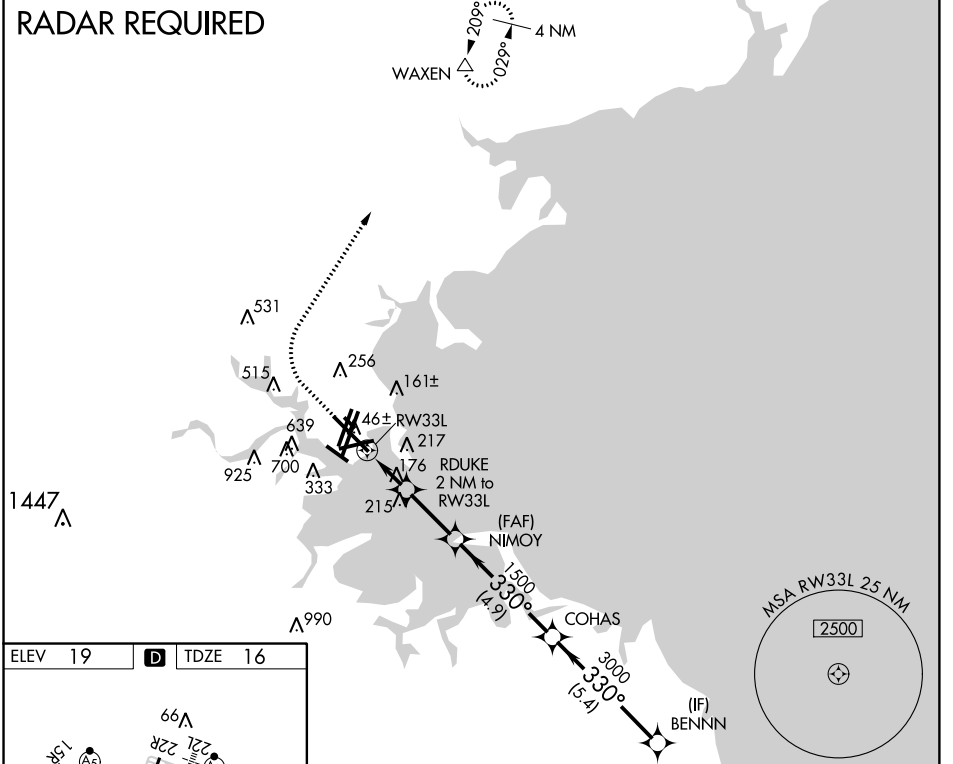
WAAS CH 69525 W33A	APP CRS 330°	Rwy Idg TDZE 16 Apt Elev 19	10083
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RNAV (GPS) RWY 33L

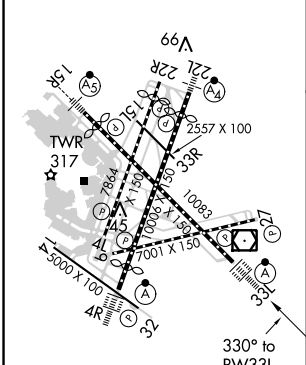
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

▼ DME/DME RNP-0.3 NA. Circling NA to Rwy 14. Circling NA for Cats C and D west of Rwys 4L and 15R. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -14°C (7°F) or above 54°C (130°F).	ALSIF-2	MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct WAXEN and hold.			
D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8	CPDLC

RADAR REQUIRED



ELEV 19	D	TDZE 16
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TDZ/CL Rwys 4R, 15R and 33L
 REIL Rwys 4L, 27 and 32
 MIRL Rwy 15L-33R
 HIRL Rwys 4L-22R, 4R-22L, 9-27, 14-32 and 15R-33L

600	3000	WAXEN	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00°/TCH 68).	BENNN
↑	↷	△		
*LNAV only	*1.1 NM to RWY33L	RDUKE 2 NM to RWY33L	NIMOI	COHAS
	1500	1500	330°	4000
	*700	1500	3000	
	GP 3.00°	TCH 57		
	1.1 NM	0.9 NM	2.5 NM	4.9 NM
			5.4 NM	

CATEGORY	A	B	C	D
LPV DA		216/18	200 (200-½)	
LNAV/ VNAV DA		324/24	308 (400-½)	
LNAV MDA	440/24	424 (500-½)	440/40	424 (500-¾)
CIRCLING	960-1¼ 941 (1000-1¼)	1060-1½ 1041 (1100-1½)	640-1¾ 621 (700-1¾)	640-2 621 (700-2)

NE-1, 01 FEB 2018 to 01 MAR 2018

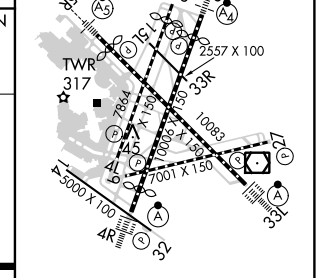
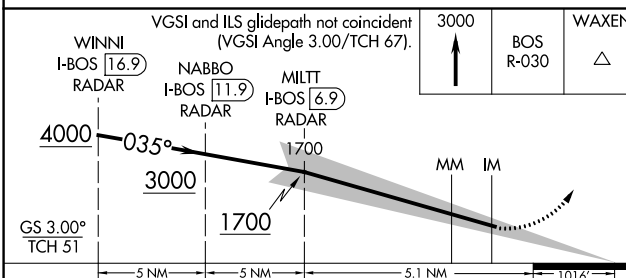
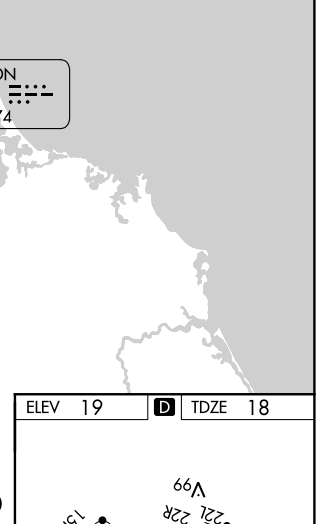
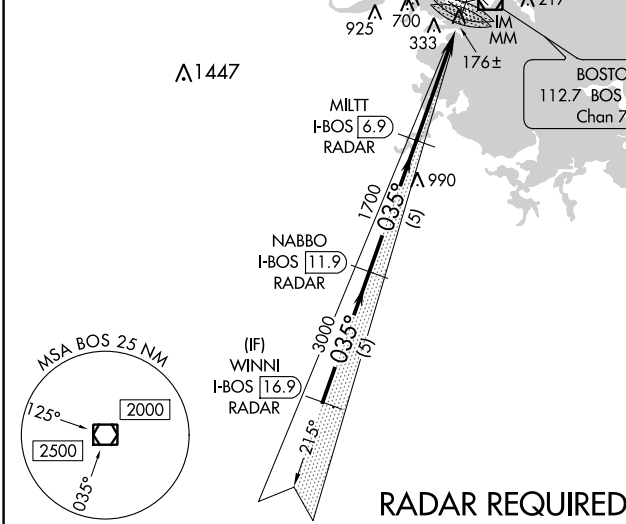
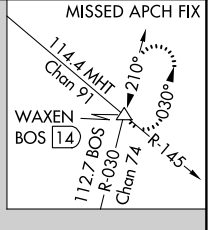
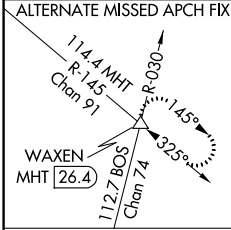
NE-1, 01 FEB 2018 to 01 MAR 2018

LOC/DME I-BOS 110.3 Chan 40	APP CRS 035°	Rwy Idg 8851 TDZE 18 Apt Elev 19
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ILS RWY 4R (SA CAT I)

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

<p>When control tower reports tall vessels in approach area, procedure NA. Requires specific OPSPEC, MPSEC, or LOA approval and use of HUD to DH.</p>	ALSf-2 	MISSED APPROACH: Climb to 3000 on BOS VOR/DME R-030 to WAXEN INT/BOS 14 DME and hold.			
	D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8



CATEGORY	A	B	C	D
S-ILS 4R	RA 168/14 150 DA 168			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy's
4R, 15R and 33L
REIL Rwy's 4L, 27 and 32
MIRL Rwy 15L-33R
HIRL Rwy's 4L-22R, 4R-22L,
9-27, 14-32 and 15R-33L

NE-1, 01 FEB 2018 to 01 MAR 2018

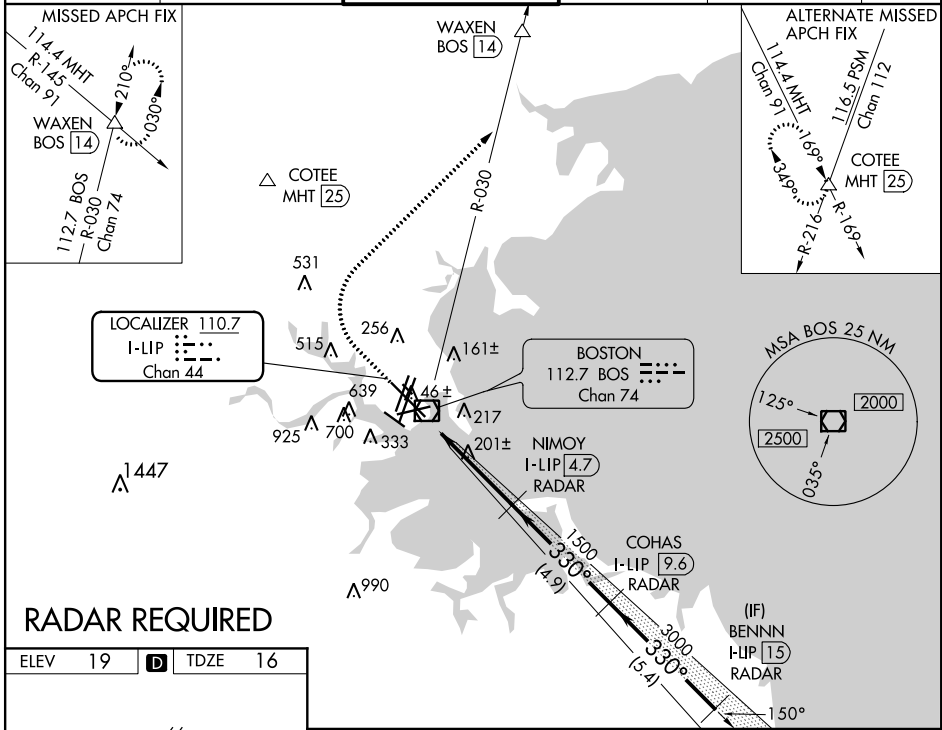
NE-1, 01 FEB 2018 to 01 MAR 2018

LOC/DME I-LIP 110.7 Chan 44	APP CRS 330°	Rwy Idg 10083 TDZE 16 Apt Elev 19
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ILS RWY 33L (CAT II & III)

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

<p>⚠ DME or RADAR required. ⚠ CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.</p>		<p>ALSIF-2</p>	<p>MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on BOS VOR/DME R-030 to WAXEN INT/BOS 14 DME and hold.</p>		
D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8	CPDLC

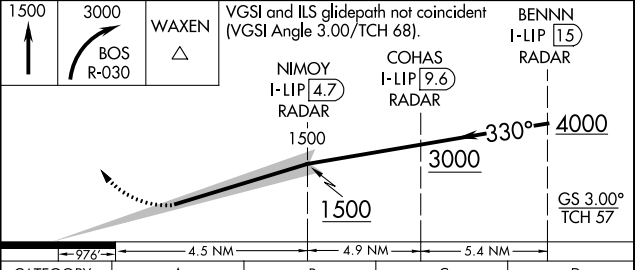
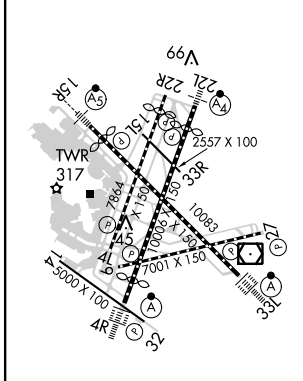


NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

RADAR REQUIRED

ELEV 19	D	TDZE 16
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CATEGORY	A	B	C	D
S-ILS 33L	CAT II RA 116/12 100 DA 116			
S-ILS 33L	CAT III RVR 06			

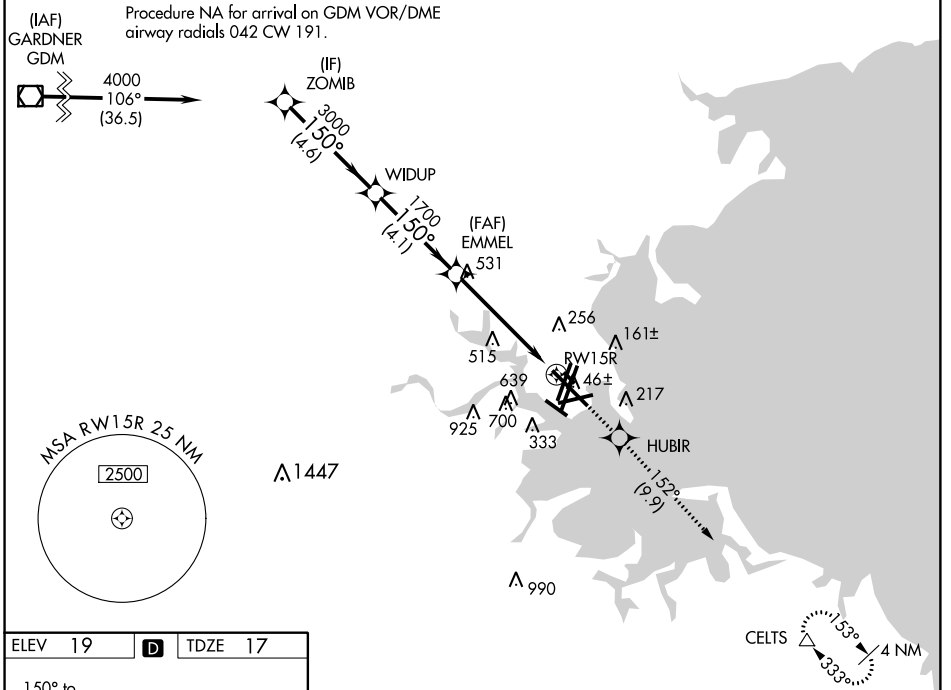
CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

WAAS CH 42925 W15A	APP CRS 150°	Rwy ldg TDZE Apt Elev	9201 17 19
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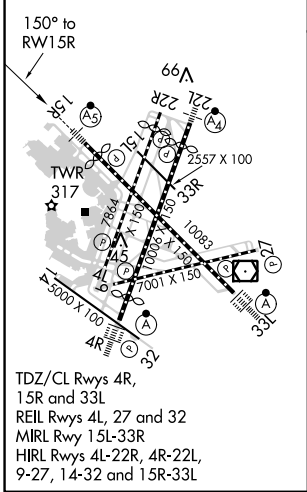
RNAV (GPS) RWY 15R

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

<p>▲ DME/DME RNP-0.3 NA. Circling NA to Rwy 14. Circling NA for Cats C and D west of Rws 4L and 15R. For inoperative ALS, increase LNAV Cats C and D visibility to 1½ SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C (9°F) or above 43°C (109°F).</p>	MALSR	MISSED APPROACH: Climb to 3000 direct HUBIR and on track 152° to CELTS and hold.						
	<table border="1"> <tr> <td>D-ATIS 135.0</td> <td>BOSTON APP CON 120.6 263.1</td> <td>BOSTON TOWER 128.8 257.8</td> <td>GND CON 121.9</td> <td>CLNC DEL 121.65 257.8</td> <td>CPDLC</td> </tr> </table>	D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8	CPDLC	
D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8	CPDLC			



ELEV 19	D	TDZE 17
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VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).

3000	HUBIR	CELTS
↑	✦	△
	tr 152°	

*LNAV only.

GP 3.00° TCH 60	4.6 NM	4.1 NM	3.4 NM	1.7 NM
CATEGORY	A	B	C	D
LPV DA		217/18	200 (200-½)	
LNAV/ VNAV DA		567-1¾	550 (600-1¾)	
LNAV MDA	620/24	603 (700-½)	620-1¾	603 (700-1¾)
CIRCLING	960-1¼ 941 (1000-1¼)	1060-1½ 1041 (1100-½)	640-1¾ 621 (700-1¾)	640-2 621 (700-2)

NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

LOC/DME I-BOS 110.3 Chan 40	APP CRS 035°	Rwy Idg 8851 TDZE 18 Apt Elev 19
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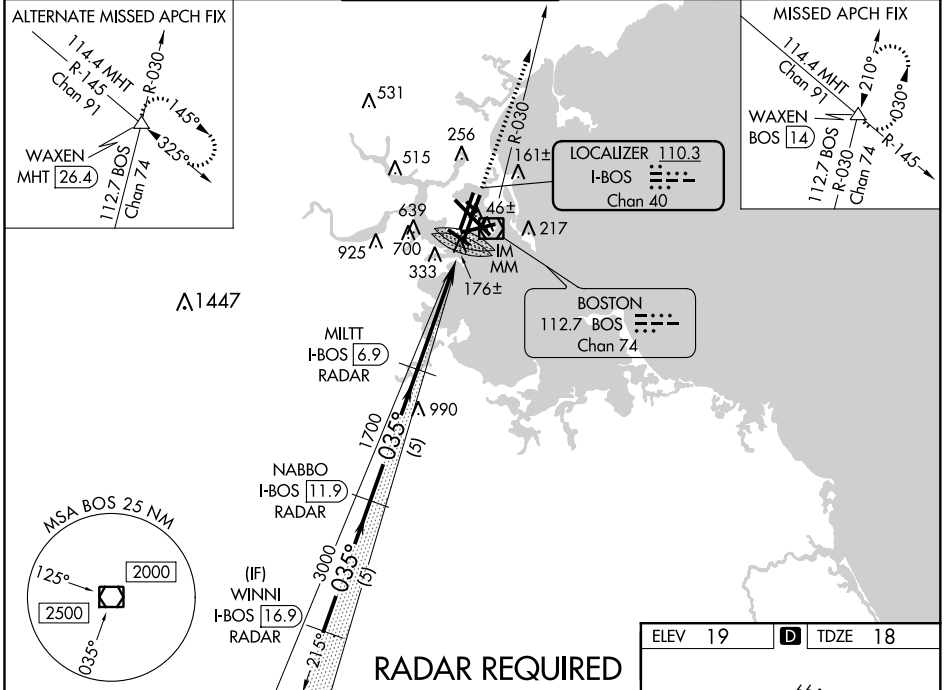
ILS RWY 4R (CAT II & III)

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

⚠ When control tower reports tall vessels in approach area, procedure NA.
⚠ CAT II: RVR 1000 authorized with specific OPSPEC, MPSEC, or LOA approval and use of outland or HUD to touchdown.

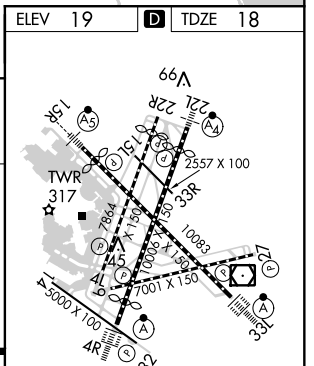
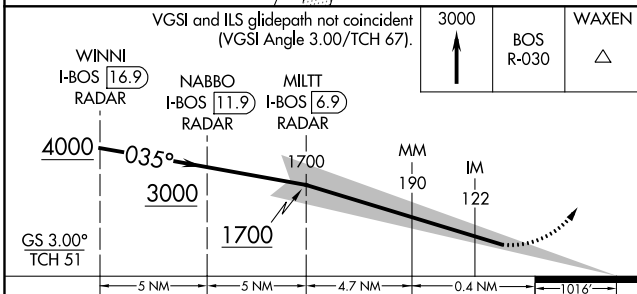
ALSF-2
(A) MISSED APPROACH: Climb to 3000 on BOS VOR/DME R-030 to WAXEN INT/ BOS 14 DME and hold.

D-ATIS 135.0	BOSTON APP CON 120.6 263.1	BOSTON TOWER 128.8 257.8	GND CON 121.9	CLNC DEL 121.65 257.8	CPDLC
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NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018



CATEGORY	A	B	C	D
S-ILS 4R	CAT II RA 99/12 100 DA 118			
S-ILS 4R	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 4R, 15R and 33L
 REIL Rwy 4L, 27 and 32
 MIRL Rwy 15L-33R
 HIRL Rwy 4L-22R, 4R-22L, 9-27, 14-32 and 15R-33L

LAND AND HOLD-SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold-Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

CITY/AIRPORT	LDG RWY	HOLD-SHORT POINT	AVBL LDG DIST
BEDFORD, MA			
LAURENCE G. HANSCOM			
FIELD (BED)	05	11-29	3,000 feet
	11	05-23	2,650 feet
	29	05-23	3,662 feet
BEVERLY, MA			
BEVERLY RGNL (BVY)	09	16-34	3,450 feet
	16	09-27	4,000 feet
BOSTON, MA			
GENERAL EDWARD LAWRENCE			
LOGAN INTL (BOS)	04L	15L-33R	5,250 feet
	15R	09-27	6,800 feet
	22L	09-27	6,400 feet
	27	04R-22L	5,650 feet
BRIDGEPORT, CT			
IGOR I. SIKORSKY			
MEMORIAL (BDR)	06	11-29	3,700 feet
	11	06-24	3,350 feet
BURLINGTON, VT			
BURLINGTON INTL (BTV)			
	01	15-33	2,600 feet
	15	Twy A	3,600 feet
	33	01-19	2,900 feet
HYANNIS, MA			
BARNSTABLE MUNI-BOARDMAN/			
POLANDO FIELD (HYA)	15	06-24	4,150 feet
	24	15-33	4,650 feet
NANTUCKET, MA			
NANTUCKET MEMORIAL (ACK)			
	06	15-33	4,316 feet
	33	06-24	3,650 feet
NORWOOD, MA			
NORWOOD MEMORIAL (OWD)			
	35	10-28	3,320 feet
PORTLAND, ME			
PORTLAND INTL			
JETPORT (PWM)	11	18-36	5,800 feet
	18	11-29	3,100 feet
WINDSOR LOCKS, CT			
BRADLEY INTL (BDL)			
	06	01-19	6,000 feet
	24	15-33	5,850 feet
	33	06-24	4,550 feet

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

AUBURN/LEWISTON, ME
AUBURN/LEWISTON
MUNI (LEW).....**ILS or LOC Rwy 4¹**
RNAV (GPS) Rwy 4²
RNAV (GPS) Rwy 22³

¹ILS, Categories A, B, 800-2; Category C, 800-2½;
Category D, 900-2¾; LOC, NA.
²Category C, 800-2¼; Category D, 900-2¾;
³NA when local weather not available.

AUGUSTA, ME
AUGUSTA STATE (AUG).....**ILS or LOC Rwy 17¹**
RNAV (GPS)-B
RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35
VOR Rwy 35²
VOR/DME-A

NA when local weather not available.
¹ILS, Categories B, C, D, 700-2.
²Category C, 800-2¼; Category D, 800-2½.

BANGOR, ME
BANGOR INTL (BGR).....**ILS or LOC Rwy 33¹**
ILS Y or LOC Y Rwy 15²
RADAR-1³
RNAV (GPS) Rwy 15³
RNAV (GPS) Rwy 33³

¹ILS, LOC, Categories A, B, 1200-2; Categories C, D, E, 1200-3.
²ILS, Category D, 700-2; Category E, 700-2½;
LOC, Category E, 800-2½.
³Category E, 800-2½.

BAR HARBOR, ME
HANCOCK COUNTY-
BAR HARBOR (BHB).....**ILS or LOC Rwy 22¹**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22

NA when local weather not available.
¹ILS, Category C, D, 700-2.

BEDFORD, MA
LAURENCE G. HANSCOM
FIELD (BED).....**ILS or LOC Rwy 11¹²**
ILS or LOC Rwy 29¹³
RNAV (GPS) Z Rwy 11
RNAV (GPS) Rwy 23
RNAV (GPS) Z Rwy 29
VOR Rwy 23⁴

NA when local weather not available.
¹NA when control tower closed.
²ILS, Categories A, B, 800-2; Category C, 800-2¼;
Category D, 800-2½.
LOC, Category C, 800-2¼; Category D, 800-2½.
³ILS, Categories A, B, 800-2; Categories C, D,
800-2½. LOC, Category C, D, 800-2½.
⁴Category C, 800-2¼; Category D, 800-2½.

BEVERLY, MA
BEVERLY RGNL (BVY).....**LOC Rwy 16¹**
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 27²
RNAV (GPS) Rwy 34²

NA when local weather not available.
¹NA when control tower closed.
²Category D, 800-2½.

BLOCK ISLAND, RI
BLOCK ISLAND
STATE (BID).....**RNAV (GPS) Rwy 28**
VOR Rwy 28

NA when local weather not available.

01 FEB 2018 to 01 MAR 2018

01 FEB 2018 to 01 MAR 2018

NAME ALTERNATE MINIMUMS

BOSTON, MA

GENERAL EDWARD LAWRENCE LOGAN
 INTL (BOS).....**ILS or LOC Rwy 4R¹**
 ILS or LOC Rwy 15R¹
 ILS or LOC Rwy 22L¹
 ILS or LOC Rwy 27¹
 ILS or LOC Rwy 33L¹
 RNAV (GPS) Rwy 4R²
 RNAV (GPS) Rwy 15R²
 RNAV (GPS) Rwy 22L²
 RNAV (GPS) Rwy 27²
 RNAV (GPS) Rwy 32³
 RNAV (GPS) Rwy 33L²
 VOR/DME-A⁴

- ¹ILS, Category A, 1000-2; Category B, 1100-2; Categories C, D, 700-2; LOC, Category A, 1000-2; Category, B, 1100-2.
- ²Category A, 1000-2; Category B, 1100-2.
- ³Category A, 1000-2; Category B, 1100-2; Categories C, D, 900-2½.
- ⁴Categories A, B, 1000-2.

BRIDGEPORT, CT

IGOR I SIKORSKY
 MEMORIAL (BDR).....**ILS or LOC Rwy 6¹²**
 RNAV (GPS) Rwy 6³
 RNAV (GPS) Rwy 24³
 RNAV (GPS) Rwy 29³
 VOR Rwy 24³

- ¹NA when control tower closed.
- ²ILS, Category B, 700-2; Category C, 900-2½; Category D, 900-2¾. LOC, Category C, 900-2½; Category D, 900-2¾.
- ³Category C, 900-2½; Category D, 900-2¾.

BRUNSWICK, ME

BRUNSWICK
 EXE (BXM).....**RNAV (GPS) Rwy 1R**
 NA when local weather not available.
 Category C, 800-2¼; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

BURLINGTON, VT

BURLINGTON
 INTL (BTV).....**ILS or LOC/DME Rwy 15²³⁷**
 ILS or LOC/DME Rwy 33¹²
 RNAV (GPS) Rwy 15⁴
 RNAV (GPS) Y Rwy 33⁵
 RNAV (GPS) Z Rwy 33⁶
 VOR/DME Rwy 1⁴

- ¹ILS, Category D, 700-2. LOC, Category E, 1000-3.
- ²NA when control tower closed.
- ³NA when local weather not available.
- ⁴Category C, 900-2½; Category D, 1100-3.
- ⁵Category E, 1000-3.
- ⁶Categories A, B, 1700-2, Categories C, D, E, 1700-3.
- ⁷ILS, LOC, Category C, 900-2½; Categories D, E, 1100-3.

CHATHAM, MA

CHATHAM MUNI (CQX).....**RNAV (GPS)-B**
 NA when local weather not available.

CHESTER, CT

CHESTER (SNC).....**RNAV (GPS) Rwy 17**
 RNAV (GPS) Rwy 35
 VOR-A

NA when local weather not available.

CONCORD, NH

CONCORD
 MUNI (CON).....**RNAV (GPS) Rwy 12¹**
 RNAV (GPS) Rwy 17²
 RNAV (GPS) Rwy 35²
 VOR-A¹

- ¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
- ²Category D, 900-2¾.

DANBURY, CT

DANBURY
 MUNI (DXR).....**RNAV (GPS) Rwy 8¹**
 RNAV (GPS)-A²
 LOC Rwy 8¹³

- ¹Category B, 900-2; Category C, 900-2½; Category D, 1100-3.
- ²Categories A, B, 900-2; Category C, 900-2¾; Category D, 1100-3.
- ³NA when control tower closed.

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NAME ALTERNATE MINIMUMS

FALMOUTH, MA

CAPE COD COAST GUARD
AIR STATION (FMH).....RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 23
RNAV (GPS) Rwy32

Category C, 800-2¼; Category D, 800-2½.

FITCHBURG, MA

FITCHBURG MUNI (FIT).....RNAV (GPS) Rwy 14¹
RNAV (GPS) Rwy 20²
RNAV (GPS) Rwy32²
NDB-A³⁴

¹Categories A, B, 1000-2; Category C, 1000-3.

²Category B, 1000-2; Category C, 1000-3.

³Category A, 900-2; Category B, 1000-2;

Category C, 1000-3.

⁴NA when local weather not available

FRENCHVILLE, ME

NORTHERN AROOSTOOK
RGNL (FVE).....RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

FRYEBURG, ME

EASTERN SLOPES
RGNL (IZG).....RNAV (GPS) Rwy 32¹

NA when local weather not available.

¹Category A, 900-2; Category B, 1000-2; Category C, 1200-3.

GREENVILLE, CT

GREENVILLE
MUNI (3B1).....RNAV (GPS) RWY 14
NA when local weather not available.
Category A, B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

GROTON (NEW LONDON), CT

GROTON-NEW
LONDON (GON).....ILS or LOC Rwy 5
ILS, Categories B, C, D, 700-2.
NA when control tower closed.

HARTFORD, CT

HARTFORD-BRAINARD (HFD).....LDA Rwy 2¹³
RNAV (GPS) Rwy 2¹
VOR-A²

¹Category C, 900-2¾, Category D, 1000-3.

²Categories A, B, 1200-2; Categories C, D, 1200-3.

³NA when control tower closed.

NAME ALTERNATE MINIMUMS

HIGHGATE, VT

FRANKLIN COUNTY
STATE (FSO).....RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19

NA when local weather not available.

HOULTON, ME

HOULTON INTL (HUL).....RNAV (GPS)-A
RNAV (GPS) Rwy 5
VOR/DME Rwy 5

NA when local weather not available.

HYANNIS, MA

BARNSTABLE MUNI-BOARDMAN/
POLANDO FIELD (HYA).....ILS or LOC Rwy 15¹³
ILS or LOC Rwy 24¹³
RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 24
RNAV (GPS) Rwy 33
VOR Rwy 6²

NA when local weather not available.

¹NA when control tower closed.

²Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2¾.

³Category C, 900-2¼; Category D, 900-2½.

JAFFREY, NH

JAFFREY AIRPORT-
SILVER RANCH (AFN).....RNAV (GPS)-B
VOR-A¹

NA when local weather not available.

¹Categories A, B, 900-2.

KEENE, NH

DILLANT-
HOPKINS (EEN).....RNAV (GPS) Rwy 2¹
VOR Rwy 2²

NA when local weather not available.

¹Categories A, B, 1700-2; Category C, D, 1700-3.

LACONIA, NH

LACONIA MUNI (LCI).....ILS or LOC Rwy 8¹
NDB Rwy 8²
RNAV (GPS) Rwy 8³
RNAV (GPS) Rwy 26³

NA when local weather not available.

¹ILS, LOC, Category A, 900-2; Category B, 1100-2;
Category C, 1100-3; Category D, 1700-3.

²Category A, 1000-2; Category B, 1100-2; Category C, 1100-3; Category D, 1700-3.

³Category A, 900-2; Category B, 1000-2; Category C, 1100-3; Category D, 1700-3.

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NAME ALTERNATE MINIMUMS

LAWRENCE, MA

LAWRENCE
MUNI (LWM).....**ILS Y or LOC Y Rwy 5¹²**
ILS Z or LOC Z Rwy 5¹²
RNAV (GPS) Rwy 5³
RNAV (GPS) Rwy 23³

¹NA when control tower closed.
²ILS, Category C, 700-2; Category D, 1100-3; LOC, Category D, 1100-3.
³Category D, 1100-3.

LEBANON, NH

LEBANON
MUNI (LEB).....**ILS or LOC Rwy 18¹**
RNAV (GPS) Rwy 7²
RNAV (GPS) Rwy 18²
RNAV (GPS) Rwy 25²
RNAV (GPS) Rwy 36³
VOR Rwy 7⁴
VOR Rwy 25⁵

¹ILS, LOC, Categories A, B, 1200-2; Category C, 1300-3, Category D, 1500-3.
²Category A, 1100-2; Category B, 1200-2; Categories C, D, 1200-3.
³Categories A, B, 1200-2; Categories C, D, 1200-3.
⁴Category A, 1100-2; Category B, 1200-2; Category C, 1300-3; Category D, 1500-3.
⁵Categories A, B, 1100-2; Categories C, D, 1100-3.

LYNDONVILLE, VT

CALEDONIA
COUNTY (CDA).....**RNAV (GPS) Rwy 2**
NA when local weather not available.
Categories A, B, 900-2.

MANCHESTER, NH

MANCHESTER
(MHT).....**ILS or LOC/DME Rwy 17¹²**
ILS or LOC Rwy 6¹²
ILS or LOC Rwy 35¹²
RNAV (GPS) Rwy 6
RNAV (GPS) Y Rwy 17³
RNAV (GPS) Y Rwy 35³

NA when local weather not available.
¹ILS, Categories A, B, 700-2, Category C, 800-2, Category D, 900-2³/₄; LOC, Category D, 900-2³/₄.
²NA when control tower closed.
³Category D, 900-2³/₄.

NAME ALTERNATE MINIMUMS

MARSHFIELD, MA

MARSHFIELD MUNI-GEORGE
HARLOW FIELD (GHG).....**RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24
NA when local weather not available.
Category B, 900-2.

MERIDEN, CT

MERIDEN MARHAM
MUNI (MMK).....**RNAV (GPS) Rwy 36**
NA when local weather not available.

MILLINOCKET, ME

MILLINOCKET
MUNI (MLT).....**RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
VOR Rwy 29
NA when local weather not available.
Category D, 800-2¹/₄.

MORRISVILLE, VT

MORRISVILLE-STOWE
STATE (MVL).....**RNAV (GPS) Y Rwy 19¹**
RNAV (GPS) Z Rwy 19²
RNAV (GPS)-A³

NA when local weather not available.
¹Categories A, B, 1500-2; Category C, 1500-3.
²Categories A, B, 1100-2; Category C, 1300-3.
³Category A, 1000-2; Category B, 1100-2; Category C, 1300-3.

NANTUCKET, MA

NANTUCKET
MEMORIAL (ACK).....**ILS or LOC Rwy 6¹⁴**
ILS or LOC Rwy 24¹⁴
RNAV (GPS) Rwy 6²
RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 24²
RNAV (GPS) Rwy 33³
VOR Rwy 24

NA when local weather not available.
¹NA when control tower closed.
²Category D, 800-2¹/₄
³Category D, 1000-3.
⁴ILS, Category C, 700-2; Category D, 700-2¹/₄; LOC, Category D, 800-2¹/₄.

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NAME ALTERNATE MINIMUMS

NASHUA, NH

BOIRE FIELD (ASH).....**ILS or LOC Rwy 14**¹²
RNAV (GPS) Rwy 14⁴
RNAV (GPS) Rwy 32⁴
VOR-A³
VOR Rwy 32⁴

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A, B, C, 700-2; Category D, 800-2½; LOC, Category D, 800-2½.

³Category C, 800-2¼; Category D, 800-2½.

⁴Category D, 800-2½.

NEW BEDFORD, MA

NEW BEDFORD
 RGNL (EWB).....**ILS or LOC Rwy 5**¹³
LOC BC Rwy 23²
RNAV (GPS) Rwy 5²
RNAV (GPS) Rwy 23²
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32⁴

NA when local weather not available.

¹NA when control tower closed.

²Category D, 900-2¾.

³ILS, Categories A, B, C, 700-2; Category D, 900-2¾; LOC, Category D, 900-2¾.

⁴Categories A, B, 900-2; Categories C, D, 900-2½.

NEW HAVEN, CT

TWEED-NEW
 HAVEN (HVN).....**ILS or LOC Rwy 2**¹²
RNAV (GPS) Rwy 2³
RNAV (GPS) Rwy 20
VOR Rwy 2¹⁴

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 900-2¾. LOC, Category C, 800-2¼; Category D, 900-2¾.

³Category C, 800-2¼; Category D, 900-2¾.

⁴Category D, 800-2¼.

NEWPORT, RI

NEWPORT
 STATE (UUU).....**RNAV (GPS) Rwy 16**
VOR/DME Rwy 16

NA when local weather not available.

NEWPORT, VT

NORTHEAST KINGDOM
 INTL (EFK).....**RNAV (GPS) Rwy 36**
 Category C, 1100-3.

NAME ALTERNATE MINIMUMS

NORTH ADAMS, MA

HARRIMAN-AND-
 WEST (AQW).....**RNAV (GPS)-A**
 Categories A, B, 2100-2; Category C, 2200-3.

NORTH KINGSTOWN, RI

QUONSET
 STATE (OQU).....**ILS or LOC Rwy 16**¹²
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34³
VOR-A³

¹NA when control tower closed.

²ILS, LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

³Category D, 900-2¾.

NORWOOD, MA

NORWOOD
 MEMORIAL (OWD).....**LOC Rwy 35**
 Categories C, D, 1200-3.

ORANGE, MA

ORANGE MUNI (ORE).....**RNAV (GPS) Rwy 32**¹
VOR-A¹²

¹NA when local weather not available.

²Categories A, B, 1400-2; Categories C, D, 1400-3.

OXFORD, CT

WATERBURY-
 OXFORD (OXC).....**RNAV (GPS) Rwy 18**¹
RNAV (GPS) Rwy 36

NA when local weather not available.

¹Category D, 900-2¾.

PAWTUCKET, RI

NORTH CENTRAL
 STATE (SFZ).....**RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 23
VOR-A
VOR-B

NA when local weather not available.

PITTSFIELD, MA

PITTSFIELD
 MUNI (PSF).....**RNAV (GPS) Rwy 8**
RNAV (GPS) Rwy 26

NA when local weather not available.

Category A, 900-2; Category B, 1000-2; Category C, 1300-3; Category D, 1500-3.

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NAME ALTERNATE MINIMUMS

PLYMOUTH, MA

PLYMOUTH
MUNI (PYM).....**ILS or LOC/DME Rwy 6**
RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 24

NA when local weather not available.

PORTLAND, ME

PORTLAND INTL
JETPORT (PWM).....**ILS or LOC Rwy 11¹⁵**
ILS or LOC Rwy 29¹³
RNAV (GPS) Rwy 11⁴
RNAV (GPS) Rwy 18⁴
RNAV (GPS) Rwy 29⁴
RNAV (GPS) Rwy 36²⁴

- ¹NA when approach control closed.
- ²NA when local weather not available.
- ³ILS, Category C, 700-2; Category D, 800-2½.
- LOC, Category D, 800-2½.
- ⁴Category D, 800-2½.
- ⁵ILS, Categories A, B, C, 700-2; Category D, 800-2½. LOC, Category D, 800-2½.

PORTSMOUTH, NH

PORTSMOUTH INTL AT
PEASE (PSM).....**ILS or LOC Rwy 16¹**
ILS or LOC Rwy 34¹
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 34²

- ¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.
- ²Category E, 800-2½.

PRESQUE ISLE, ME

NORTHERN MAINE REGIONAL AIRPORT AT
PRESQUE ISLE (PQI).....**ILS or LOC Rwy 1¹²**
RNAV (GPS) Rwy 1¹
RNAV (GPS) Rwy 19¹³
RNAV (GPS) Rwy 28¹
VOR Rwy 19⁴

- ¹NA when local weather not available.
- ²Categories B, C, D, 700-2.
- ³Category D, 800-2¼.
- ⁴Category C, 800-2¼; Category D, 800-2½.

PRINCETON, ME

PRINCETON
MUNI (PNN).....**RNAV (GPS) Rwy 15**
NA when local weather not available.
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

PROVIDENCE, RI

THEODORE FRANCIS GREEN
STATE (PVD).....**ILS or LOC Rwy 5¹**
ILS or LOC Rwy 23¹
ILS or LOC Rwy 34¹²
RNAV (GPS) Rwy 5³
RNAV (GPS) Rwy 34³
RNAV (GPS) Y Rwy 23³
VOR Rwy 5³
VOR Y Rwy 34³
VOR Z Rwy 34³

- ¹ILS, LOC, Category D, 900-2½.
- ²NA when control tower closed.
- ³Category D, 900-2½.

PROVINCETOWN, MA

PROVINCETOWN
MUNI (PVC).....**NDB Rwy 25**
RNAV (GPS) RWY 7
RNAV (GPS) RWY 25

NA when local weather not available.

ROCHESTER, NH

SKYHAVEN (DAW).....**RNAV (GPS) Rwy 33**
VOR/DME-A

NA when local weather not available.

ROCKLAND, ME

KNOX COUNTY
RGNL (RKD).....**ILS or LOC Rwy 13¹²**
RNAV (GPS) Rwy 3¹
RNAV (GPS) Rwy 13³
RNAV (GPS) Rwy 31¹

- ¹NA when local weather not available.
- ²ILS, Category C, 700-2; Category D, 1100-3; LOC, Category D, 1100-3.
- ³Category D, 1100-3.

RUTLAND, VT

RUTLAND-SOUTHERN VERMONT
RGNL (RUT).....**ILS Y or LOC Y Rwy 19¹**
ILS Z or LOC Z Rwy 19²
RNAV (GPS) Rwy 1³
RNAV (GPS) Y Rwy 19⁴
RNAV (GPS) Z Rwy 19²

- NA when local weather not available.
- ¹Categories A, B, 1500-2; Category C, 1800-3.
- ²Category A, 1200-2; Category B, 1300-2; Category C, 1800-3.
- ³Categories A, B, 2400-2; Categories C, D, 2400-3.
- ⁴Categories A, B, 1800-2; Category C, 1800-3.

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NAME ALTERNATE MINIMUMS

SANFORD, ME

SANFORD SEACOAST
RGNL (SFM).....RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 32
VOR Rwy 25

NA when local weather not available.

SPRINGFIELD, VT

HARTNESS STATE
(SPRINGFIELD) (VSF).....RNAV (GPS) Rwy 5
Category A, 1000-2; Category B, 1200-2;
Category C, 1200-3; Category D, 1900-3.

TAUNTON, MA

TAUNTON MUNI-
KING FIELD (TAN).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.
Category D, 800-2¼.

VINEYARD HAVEN, MA

MARTHAS
VINEYARD (MVY).....ILS or LOC Rwy 24¹
RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 15²
RNAV (GPS) Rwy 24²
RNAV (GPS) Rwy 33
VOR Rwy 6

NA when local weather not available.
¹NA when control tower closed.
²Category D, 800-2¼.

WATERVILLE, ME

WATERVILLE ROBERT
LAFLEUR (WVL).....ILS or LOC/DME Rwy 5
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23

NA when local weather not available.

WESTFIELD/SPRINGFIELD, MA

WESTFIELD-
BARNES RGNL (BAF).....ILS or LOC Rwy 20¹²⁵
RNAV (GPS) Rwy 2²³
RNAV (GPS) Rwy 20²⁴
VOR or TACAN Rwy 2²⁴
VOR Rwy 20²⁴

¹Categories, A, B, 1000-2; Category C, 1000-3;
Categories D, E, 1400-3.
²NA when local weather not available.
³Categories A, B, 1100-2; Category C, 1100-3;
Category D, E, 1400-3.
⁴Categories A, B, 900-2; Category C, 900-2¾;
Categories D, E, 1400-3.
⁵NA when tower closed.

NAME ALTERNATE MINIMUMS

WHITEFIELD, NH

MOUNT WASHINGTON
RGNL (HIE).....RNAV (GPS) Y Rwy 10¹²
RNAV (GPS) Z Rwy 10²

¹Categories A, B, 900-2; Category C, 900-2¾.
²NA when local weather not available.

WILLIMANTIC, CT

WINDHAM (IJD).....RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 27²
VOR-A¹

¹Category C, 800-2¼.
²NA when local weather not available.

WINDSOR LOCKS, CT

BRADLEY INTL (BDL).....ILS or LOC Rwy 6¹
ILS or LOC Rwy 24²
ILS or LOC Rwy 33²
RNAV (GPS) Y Rwy 6²
RNAV (GPS) Rwy 15³
RNAV (GPS) Y Rwy 24²
RNAV (GPS) Rwy 33²

¹Categories A, B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.
²Category D, 800-2¼.
³Categories A, B, 1000-2; Category C,
1000-2¾.

WISCASSET, ME

WISCASSET (IWI).....RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

WORCESTER, MA

WORCESTER
RGNL (ORH).....ILS or LOC Rwy 11²³
ILS or LOC Rwy 29¹²⁴
RNAV (GPS) Rwy 11⁵
RNAV (GPS) Rwy 29⁵
RNAV (GPS) Rwy 33¹⁶
VOR/DME Rwy 33¹⁶

¹NA when local weather not available.
²NA when control tower closed.
³ILS, Category B, 800-2; Categories C, D, 1000-3;
LOC, Categories C, D, 1000-3.
⁴ILS, Category B, 700-2; Category C, 800-2;
Category D, 1000-3. LOC, Category D,
1000-3.
⁵Categories C, D, 1000-3.
⁶Category D, 1000-3.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS) INSTRUMENT APPROACH PROCEDURE CHARTS

18032

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or radar vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less - one statute mile visibility. (2) For aircraft having more than two engines - one-half statute mile visibility. (3) For helicopters - one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

NAME TAKEOFF MINIMUMS

NAME TAKEOFF MINIMUMS

AUBURN-LEWISTON, ME

AUBURN-LEWISTON, ME (CON'T)

AUBURN-LEWISTON MUNI (LEW)

AUBURN-LEWISTON MUNI (CON'T.)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 5 05076 (FAA)

TAKEOFF MINIMUMS: Rwy 17, 500-2¼ or std. with a min. climb of 266' per NM to 900. Rwy 22, std. with a min. climb of 312' per NM to 1500, or 1100-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: Rwy 17, climb via heading 165° to 900 before turning northeast. Rwy 22, climb to 1500 direct LE LOM. Cross LE LOM at 1500 or above before turning southwest. For climb in visual conditions cross Auburn/Lewiston Muni at or above 1300.

TAKEOFF OBSTACLE NOTES: Rwy 4, multiple trees beginning 297' from DER, 78' right of centerline, up to 90' AGL/386' MSL. Multiple trees beginning 331' from DER, 277' left of centerline, up to 86' AGL/323' MSL. Abandoned aircraft 73' from DER, 478' right of centerline, 19' AGL/289' MSL. Abandoned aircraft 36' from DER, 451' right of centerline, 18' AGL/288' MSL. Pole 1487' from DER, 348' right of centerline, 51' AGL/314' MSL. Pole 1011' from DER, 387' left of centerline, 37' AGL/277' MSL. Fence 132' from DER, 306' right of centerline, 11' AGL/267' MSL. Rwy 17, tree 1209' from DER, 390' right of centerline, 72' AGL/364' MSL. Tree 909' from DER, 336' right of centerline, 51' AGL/350' MSL. Tree 1819' from DER, 169' left of centerline, 92' AGL/371' MSL. Tree 1053' from DER, 252' left of centerline, 60' AGL/336' MSL.

Tree 575' from DER, 175' left of centerline, 39' AGL/322' MSL. Tree 881' from DER, 110' right of centerline, 35' AGL/327' MSL. Terrain 159' from DER, 487' right of centerline, 0' AGL/302' MSL. Tree 1.9 NM from DER, 247' left of centerline, 129' AGL/576' MSL. Terrain 276' from DER, 302' right of centerline, 0' AGL/299' MSL. Road 531' from DER, 156' left of centerline, 0' AGL/305' MSL. Terrain 533' from DER, 463' right of centerline, 0' AGL/302' MSL. Terrain 18' from DER, 140' right of centerline, 0' AGL/289' MSL. Tower 1.7 NM from DER, 4211' left of centerline, 193' AGL/752' MSL. Rwy 22, tree 4322' from DER, 1403' right of centerline, 87' AGL/439' MSL. Tree 4970' from DER, 616' left of centerline, 62' AGL/414' MSL. Tree 5547' from DER, 633' right of centerline, 86' AGL/428' MSL. Tree 5242' from DER, 1108' right of centerline, 51' AGL/419' MSL. Tree 3040' from DER, 993' right of centerline, 74' AGL/363' MSL. Ground 4784' from DER, 88' right of centerline, 0' AGL/404' MSL. Ground 3902' from DER, 811' right of centerline, 0' AGL/375' MSL. Tree 3189' from DER, 500' right of centerline, 73' AGL/352' MSL. Rwy 35, tree 1877' from DER, 357' left of centerline, 104' AGL/344' MSL. Tree 870' from DER, 380' right of centerline, 72' AGL/312' MSL. Tree 1146' from DER, 378' left of centerline, 77' AGL/317' MSL. Tree 1520' from DER, 170' right of centerline, 62' AGL/302' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

AUGUSTA, ME

AUGUSTA STATE (AUG)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 11181 (FAA)

TAKEOFF MINIMUMS: **Rwy 8**, 300-1 or std. w/min. climb of 263' per NM to 600. **Rwy 17**, 300-1 or std. w/min. climb of 283' per NM to 600. **Rwy 26**, 400-2 or std. w/min. climb of 313' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 26**, climb heading 260° to 800 before turning right. **Rwy 35**, climb heading 351° to 1000 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 8**, trees beginning 197' from DER, 91' right of centerline, up to 70' AGL/443' MSL. Fence 200' from DER, 126' right of centerline, 8' AGL/358' MSL. Pole 921' from DER, 334' right of centerline, 52' AGL/422' MSL. Trees beginning 956' from DER, 588' left of centerline, up to 70' AGL/420' MSL. Tower 5173' from DER, 1864' left of centerline, 156' AGL/527' MSL. **Rwy 17**, trees beginning 102' from DER, 289' right of centerline, up to 100' AGL/529' MSL. Poles beginning 107' from DER, 355' left of centerline, up to 45' AGL/385' MSL. Vehicle on road 229' from DER, 250' left of centerline, 15' AGL/355' MSL. Trees beginning 318' from DER, 107' left of centerline, up to 80' AGL/413' MSL. **Rwy 26**, trees beginning 157' from DER, 13' left of centerline, up to 70' AGL/419' MSL. Tree 270' from DER, 90' right of centerline, 90' AGL/419' MSL. Trees and towers beginning 5728' from DER, 769' right of centerline, up to 186' AGL/666' MSL.

BANGOR, ME

BANGOR INTL (BGR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 17117 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 15**, tree 1694' from DER, 868' left of centerline, 56' AGL/215' MSL. Trees beginning 2436' from DER, 1116' left of centerline, up to 89' AGL/271' MSL. Tree 3958' from DER, 1371' left of centerline, 87' AGL/278' MSL.

BAR HARBOR, ME

HANCOCK COUNTY-BAR HARBOR (BHB)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4A 13066 (FAA)

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn via heading 220° to 2100 before proceeding on course. **Rwy 22**, climb via heading 224° to 1100 before proceeding east or southeast bound. **Rwy 35**, climb via heading 349° to 600 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 4**, road 324' from DER, 524' left of centerline, 15' AGL/79' MSL. Multiple trees beginning 119' from DER, 231' right of centerline, up to 60' AGL/193' MSL. **Rwy 17**, bush 116' from DER, 164' left of centerline, 10' AGL/47' MSL. Tree 245' from DER, 346' right of centerline, 44' AGL/82' MSL. **Rwy 22**, multiple poles and trees beginning 562' from DER, 329' left of centerline, up to 60' AGL/135' MSL. Terrain, multiple poles and trees beginning 450' left of DER, up to 60' AGL/142' MSL. Power lines beginning 626' from DER, 359' right of centerline, 35' AGL/103' MSL. **Rwy 35**, terrain and multiple trees beginning 35' from DER, 340' left of centerline, up to 60' AGL/217' MSL. Glideslope antenna and multiple trees beginning 657' from DER, 565' right of centerline up to 60' AGL/146' MSL.

BARRE-MONTPELIER, VT

EDWARD F. KNAPP STATE (MPV)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 5 14317 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 500-2 w/min. climb of 270' per NM to 2700 or 1900-3 for climb in visual conditions.

Rwy 23, 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climb heading 048° to 2100 then climbing left turn to 3900 direct MPV VOR/DME before proceeding on course. **Rwy 17**, climb heading 168° to 2600 then climbing left turn to 3500 direct MPVVOR/DME before proceeding on course. **Rwy 35**, climbing right turn to 3900 direct MPV VOR/DME before proceeding on course. **Rwys 17, 23**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Edward F Knapp state airport at or above 2900' MSL.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, vehicles on road beginning 0.69' from DER, crossing centerline, up to 15' AGL/1133' MSL. Terrain 104' from DER, 253' left of centerline, up to 1089' MSL. Trees beginning 347' from DER, crossing centerline, up to 100' AGL/1199' MSL. **Rwy 17**, tower 80' from DER, 368' right of centerline, up to 41' AGL/1223' MSL. Trees beginning 139' from DER, 409' right of centerline, up to 100' AGL/1243' MSL. Navaid 141' from DER, up to 5' AGL/1171' MSL. Navaid 199' from DER, up to 7' AGL/1172' MSL. Pole 257' from DER, 165' left of centerline, up to 27' AGL/1178' MSL. Trees 297' from DER, crossing centerline, up to 100' AGL/1193' MSL. Trees 667' from DER, crossing centerline, up to 100' AGL/1259' MSL. Building 1318' from DER, 254' left of centerline, up to 43' AGL/1221' MSL. Tower 1318' from DER, 669' left of centerline, up to 38' AGL/1208' MSL. Trees 1498' from DER, crossing centerline, up to 100' AGL/1309' MSL. Pole 1703' from DER, 41' right of centerline, up to 33' AGL/1243' MSL. Trees 1898' from DER, 726' right of centerline, up to 100' AGL/1387' MSL. Pole 1970' from DER, 539' right of centerline, up to 27' AGL/1334' MSL. Trees 2088' from DER, crossing centerline, up to 100' AGL/1384' MSL. Trees 4872' from DER, crossing centerline, up to 100' AGL/1579' MSL. **Rwy 23**, poles beginning 2' from DER, 335' left of centerline, up to 39' AGL/1167' MSL. Fence 49' from DER, 276' left of centerline, up to 7' AGL/1127' MSL. Tower 561' from DER, 573' left of centerline, up to 88' AGL/1215' MSL. Building 603' from DER, 426' left of centerline, up to 37' AGL/1159' MSL. Tower 615' from DER, 580' left of centerline, up to 68' AGL/1195' MSL. Rod 615' from DER, 580' left of centerline, up to 60' AGL/1195' MSL. Trees beginning 1263' from DER, crossing centerline, up to 100' AGL/1183' MSL. Pole 2801' from DER, 702' left of centerline, up to 27' AGL/1202' MSL. Pole 2867' from DER, 152' right of centerline, up to 55' AGL/1233' MSL. Trees 2880' from DER, crossing centerline, up to 100' AGL/1243' MSL. Tower 3010' from DER, 404' right of centerline, up to 36' AGL/1221' MSL. Trees 3299' from DER, crossing centerline, up to 100' AGL/1275' MSL. Trees 4491' from DER, crossing centerline, up to 100' AGL/1389' MSL. Trees 4944' from DER, crossing centerline, up to 100' AGL/1459' MSL. Trees 6298' from DER, crossing centerline, up to 100' AGL/1499' MSL. Trees 7273' from DER, crossing centerline, up to 100' AGL/1559' MSL. **Rwy 35**, bush 74' from DER, 288' left of centerline, up to 10' AGL/1097' MSL. Building 81' from DER, 488' right of centerline, up to 6' AGL/1094' MSL. Trees beginning 411' from DER, crossing centerline, up to 100' AGL/1132' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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BEDFORD, MA

LAURENCE G. HANSCOM FIELD (BED)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 6 13178 (FAA)

TAKEOFF MINIMUMS: **Rwy 11**, 300-1¼ or std. w/ min. climb of 251' per NM to 400, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2100' prior to DER. **Rwy 23**, 300-2 or std. w/ min. climb of 426' per NM to 500.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, trees, fence, bush, and vegetation beginning 44' from DER, 84' left and 113' right of centerline, up to 39' AGL/171' MSL. Trees and poles beginning 1153' from DER, 11' left and 117' right of centerline, up to 71' AGL/221' MSL. Trees beginning 2528' from DER, 9' left and 2' right of centerline, up to 91' AGL/235' MSL. **Rwy 11**, sign 81' from DER, 237' right of centerline, 14' AGL/126' MSL. Trees beginning 1431' from DER, 684' right of centerline, up to 53' AGL/181' MSL. Trees beginning 1875' from DER, 99' left and 457' right of centerline, up to 73' AGL/231' MSL. Tower 5028' from DER, 1681' left of centerline, 155' AGL/285' MSL. **Rwy 23**, sign 2' from DER, 303' right of centerline, 6' AGL/133' MSL. Vehicle on road 534' from DER, from 293' right to 3' right of centerline, up to 15' AGL/167' MSL. Building 614' from DER, 620' left of centerline, 23' AGL/151' MSL. Trees , terrain, and pole beginning 855 from DER, 379' left and 337' right of centerline, up to 38' AGL/180' MSL. Trees beginning 1090' from DER, 558' left and 263' right of centerline, up to 48' AGL/232' MSL. Trees and building beginning 1588' from DER, 88' left and 138' right of centerline, up to 95' AGL/259' MSL. Trees beginning 2149' from DER, 524' left and 213' right of centerline, up to 100' AGL/286' MSL. Trees, buildings, and tower beginning 3721' from DER, 48' left and 4' right of centerline, up to 100' AGL/379' MSL. **Rwy 29**, sign 13' from DER, 273' right of centerline, 24' AGL/135' MSL. Tree 391' from DER, 487' left of centerline, 20' AGL/153' MSL. Poles and trees beginning 1109' from DER, 734' left and 49' right of centerline, up to 106' AGL/243' MSL. Trees beginning 3007' from DER, 6' left and 49' right of centerline, up to 100' AGL/243' MSL.

BELFAST, ME

BELFAST MUNI (BST)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 07130 (FAA)

TAKEOFF MINIMUMS: **Rwy 33**, 300-1¾ or std. with a min. climb of 219' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, climb heading 136° to 900 before turning south.

TAKEOFF OBSTACLE NOTES: **Rwy 33**, light pole 1955' from DER, 510' left of centerline, 100' AGL/297' MSL. Multiple trees beginning 1.4 NM from DER, 1682' left of centerline, up to 80' AGL/429' MSL.

BENNINGTON, VT

WILLIAM H. MORSE STATE (DDH)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 12152 (FAA)

TAKEOFF MINIMUMS: **Rwy 13**, std. w/min. climb of 645' per NM to 4000 or 2600-3 for climb in visual conditions .

Rwy 31, 400-1 w/ min. climb of 300' per NM to 4200 or 2600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climbing left turn direct CAM VOR/DME, continue climb-in-hold (North, right turns, 160° inbound) to 4400 before proceeding on course or...

Rwy 31, climbing right turn direct CAM VOR/DME, continue climb-in-hold (North, right turns, 160° inbound) to 4400 before proceeding on course or...

... For climb in visual conditions: cross William H. Morse State Airport at or above 3300 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 13**, rising terrain beginning 100' from DER, right to left of centerline, up to 868' MSL. Poles beginning 195' from DER, 229' right of centerline, up to 30' AGL/858' MSL. Trees beginning 358' from DER, left and right of centerline, up to 95' AGL/1279' MSL. **Rwy 31**, multiple trees beginning 116' from DER, right and left of centerline, up to 95' AGL/1139' MSL.

BERLIN, NH

BERLIN RGNL (BML)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 11069 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, std. w/min. climb of 462' per NM to 4000 or 3500-3 for climb in visual conditions.

Rwy 36, std. w/min. climb of 400' per NM to 4400 or 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 18**, climbing right turn to 7000 direct BML VOR/DME, continue climb in BML VOR/DME holding pattern (hold SW, left turns, 030° inbound) to cross BML VOR/DME at or above the MEA for direction of flight, or for climb in visual conditions cross Berlin RGNL Airport at or above 4500 before proceeding on course. **Rwy 36**, climbing right turn to 7000 direct BML VOR/DME, continue climb in BML VOR/DME holding pattern (hold SW, left turns, 030° inbound) to cross BML VOR/DME at or above the MEA for direction of flight, or for climb in visual conditions cross Berlin RGNL Airport at or above 4500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 18**, building 44' from DER, 361' left of centerline, up to 10' AGL/1143' MSL. Trees 19' from DER, 5' right of centerline, up to 100' AGL/1267' MSL. Trees 44' from DER, 2' left of centerline, up to 100' AGL/1281' MSL. **Rwy 36**, bush 47' from DER, 153' left of centerline, up to 45' AGL/1168' MSL. Trees 27' from DER, 28' right of centerline, up to 100' AGL/1298' MSL. Trees 9' from DER, 123' left of centerline, up to 100' AGL/1224' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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BEVERLY, MA

BEVERLY MUNI (BVY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 3A 16203 (FAA)

DEPARTURE PROCEDURE: **Rwy 27**, climb heading 270° to 700 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 9**, bush 15' from DER, 407' right of centerline, 55' AGL/119' MSL. Bush beginning 76' from DER, 377' right of centerline, up to 50' AGL/120' MSL. Tree 127' from DER, 247' left of centerline, 29' AGL/112' MSL. Bush beginning 135' from DER, 248' left of centerline, up to 27' AGL/103' MSL. Bush 228' from DER, 532' left of centerline, 59' AGL/125' MSL. Bush 273' from DER, 515' left of centerline, 73' AGL/138' MSL. trees beginning 303' from DER, 227' right of centerline, up to 19' AGL/106' MSL. Bush beginning 390' from DER, 113' right of centerline, up to 23' AGL/104' MSL. Tree 520' from DER, 342' left of centerline, 77' AGL/138' MSL. Bush beginning 552' from DER, 22' right of centerline, up to 45' AGL/108' MSL. Tree 997' from DER, 394' right of centerline, 84' AGL/133' MSL. Bush 1046' from DER, 141' left of centerline, 81' AGL/130' MSL. Tree 1064' from DER, 539' right of centerline, 86' AGL/134' MSL. Tree 1070' from DER, 619' left of centerline, 90' AGL/149' MSL. Bush beginning 1077' from DER, 43' right of centerline, up to 84' AGL/138' MSL. Tree 1176' from DER, 414' left of centerline, 99' AGL/155' MSL. Bush beginning 1184' from DER, 252' left of centerline, up to 76' AGL/130' MSL. Tree 1204' from DER, 385' right of centerline, 78' AGL/126' MSL. Bush beginning 1301' from DER, 61' left of centerline, up to 81' AGL/131' MSL. Bush 2414' from DER, 1027' left of centerline, 94' AGL/188' MSL. Bush beginning 2438' from DER, 822' left of centerline, up to 106' AGL/197' MSL. Trees beginning 2538' from DER, 633' left of centerline, up to 93' AGL/189' MSL. Bush 2566' from DER, 647' left of centerline, 103' AGL/207' MSL. Bush beginning 2598' from DER, 545' left of centerline, up to 85' AGL/212' MSL. Tree 2661' from DER, 695' left of centerline, 112' AGL/228' MSL. Tree 2662' from DER, 787' left of centerline, 113' AGL/232' MSL. Bush beginning 2678' from DER, 226' left of centerline, up to 116' AGL/236' MSL. Tree 2797' from DER, 543' left of centerline, 99' AGL/227' MSL. Bush 2799' from DER, 330' right of centerline, 106' AGL/182' MSL. Tree 2847' from DER, 141' left of centerline, 101' AGL/214' MSL. Bush beginning 2851' from DER, 23' left of centerline, up to 83' AGL/223' MSL. Tree beginning 2886' from DER, 70' left of centerline, up to 100' AGL/193' MSL. Bush 2927' from DER, 259' right of centerline, 101' AGL/195' MSL. Trees beginning 2930' from DER, 74' left of centerline, up to 101' AGL/214' MSL. Bush beginning 2936' from DER, 66' right of centerline, up to 91' AGL/201' MSL. Tree 2999' from DER, 464' right of centerline, 101' AGL/180' MSL. Bush 3009' from DER, 235' left of centerline, 63' AGL/181' MSL. Tree 3043' from DER, 537' right of centerline, 101' AGL/175' MSL. Bush beginning 3047' from DER, 35' left of centerline, up to 64' AGL/180' MSL.

BEVERLY, MA (CON'T)

Rwy 16, grd 15' from DER, 417' left of centerline, 87' MSL. Rwy sign 17' from DER, 198' left of centerline, 3' AGL/85' MSL. Nt Rwy lt 28' from DER, 82' left of centerline, 2' AGL/83' MSL. Grd 100' from DER, 426' right of centerline, 89' MSL. Bush beginning 113' from DER, 228' right of centerline, up to 27' AGL/125' MSL. Bush beginning 212' from DER, 454' right of centerline, up to 72' AGL/136' MSL. Bush beginning 247' from DER, 451' right of centerline, up to 78' AGL/139' MSL. Bush 268' from DER, 442' left of centerline, 70' AGL/133' MSL. Vehicle in parking lot 289' from DER, 520' right of centerline, 115' MSL. Trees beginning 306' from DER, 263' right of centerline, up to 91' AGL/148' MSL. Bush 312' from DER, 463' left of centerline, 93' AGL/150' MSL. Trees beginning 322' from DER, 319' left of centerline, up to 88' AGL/145' MSL. Bush beginning 378' from DER, 107' right of centerline, up to 76' AGL/135' MSL. Bldg beginning 481' from DER, 616' right of centerline, up to 43' AGL/164' MSL. Bldg 499' from DER, 482' right of centerline, 42' AGL/165' MSL. Bldg 511' from DER, 619' right of centerline, 41' AGL/164' MSL. Vehicle in parking lot 515' from DER, 444' right of centerline, 120' MSL. Bush 531' from DER, 561' left of centerline, 79' AGL/132' MSL. Bldg beginning 543' from DER, 488' right of centerline, up to 44' AGL/168' MSL. Grd 574' from DER, 401' right of centerline, 115' MSL. Bush 576' from DER, 618' left of centerline, 70' AGL/119' MSL. Bldg 609' from DER, 509' right of centerline, 45' AGL/168' MSL. Bush beginning 622' from DER, 345' left of centerline, up to 68' AGL/131' MSL. Vehicle in parking lot 667' from DER, 673' right of centerline, 130' MSL. Ground 669' from DER, 482' right of centerline, 130' MSL. Vehicle in parking lot 679' from DER, 456' right of centerline, 127' MSL. Bush 692' from DER, 422' left of centerline, 76' AGL/132' MSL. Bldg 698' from DER, 655' right of centerline, 30' AGL/160' MSL. Pole 723' from DER, 403' right of centerline, 43' AGL/159' MSL. Bush 744' from DER, 404' left of centerline, 77' AGL/132' MSL. Bldg beginning 758' from DER, 515' right of centerline, up to 37' AGL/164' MSL. Bldg beginning 857' from DER, 406' right of centerline, up to 33' AGL/179' MSL. Stack 891' from DER, 517' right of centerline, 33' AGL/168' MSL. Tree 894' from DER, 368' right of centerline, 31' AGL/150' MSL. Bush 903' from DER, 496' left of centerline, 65' AGL/121' MSL. Grd 908' from DER, 353' right of centerline, 118' MSL. Vehicle in parking lot 918' from DER, 524' right of centerline, 128' MSL. Bush beginning 938' from DER, 264' left of centerline, up to 53' AGL/109' MSL. Vehicle in parking lot 994' from DER, 588' right of centerline, 129' MSL. Grd beginning 1008' from DER, 490' right of centerline, up to 128' MSL. Bush 1084' from DER, 164' right of centerline, 26' AGL/111' MSL. Pole 1086' from DER, 434' right of centerline, 28' AGL/162' MSL. Grd 1116' from DER, 710' right of centerline, 126' MSL. Bldg 1123' from DER, 604' right of centerline, 36' AGL/167' MSL. Bush beginning 1144' from DER, 164' right of centerline, up to 17' AGL/145' MSL. Grd beginning 1200' from DER, 280' right of centerline, up to 129' MSL. Bush beginning 1253' from DER, 183' left of centerline, up to 19' AGL/146' MSL. Pole 1407' from DER, 480' right of centerline, 16' AGL/149' MSL. Grd 1414' from DER, 597' right of centerline, 126' MSL. Trail beginning 1438' from DER, 333' right of centerline, up to 135' MSL. Bush beginning 1484' from DER, 281' right of centerline, up to 52' AGL/184' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

BEVERLY, MA (CON'T)

Rwy 16, Grd beginning 1553' from DER, 429' right of centerline, up to 124' MSL. Bush beginning 1643' from DER, 243' right of centerline, up to 76' AGL/126' MSL. Bush beginning 1702' from DER, 587' right of centerline, up to 57' AGL/192' MSL. Tree 1711' from DER, 692' right of centerline, 73' AGL/193' MSL. Bush 1732' from DER, 721' left of centerline, 75' AGL/126' MSL. Grd beginning 1763' from DER, 448' right of centerline, up to 137' MSL. Bush beginning 1776' from DER, 305' right of centerline, up to 5' AGL/132' MSL. Lt pole 1821' from DER, 192' right of centerline, 31' AGL/139' MSL. Bush beginning 1898' from DER, 92' right of centerline, up to 30' AGL/138' MSL. Lt pole beginning 1949' from DER, 65' right of centerline, up to 31' AGL/139' MSL. Bldg 2021' from DER, 427' right of centerline, 24' AGL/133' MSL. Lt pole, beginning 2036' from DER, 44' left of centerline, up to 31' AGL/139' MSL. Bldg 2098' from DER, 381' right of centerline, 39' AGL/148' MSL. Lt pole 2129' from DER, 8' left of centerline, 31' AGL/136' MSL. Bldg beginning 2182' from DER, 241' right of centerline, up to 42' AGL/151' MSL. Smoke stk 2497' from DER, 356' right of centerline, 53' AGL/162' MSL. Bldg beginning 2533' from DER, 354' right of centerline, up to 58' AGL/165' MSL. Bush beginning 2860' from DER, 613' right of centerline, up to 61' AGL/162' MSL. Bldg beginning 2909' from DER, 973' right of centerline, up to 56' AGL/156' MSL. Bush beginning 3293' from DER, 1086' right of centerline, up to 72' AGL/166' MSL. **Rwy 27**, bush 44' from DER, 439' left of centerline, 26' AGL/82' MSL. Trees beginning 182' from DER, 229' left of centerline, up to 16' AGL/81' MSL. Bush 214' from DER, 463' left of centerline, 49' AGL/98' MSL. Tree 243' from DER, 318' right of centerline, 15' AGL/83' MSL. Bushes beginning 279' from DER, 270' left of centerline, up to 31' AGL/92' MSL. Tree 419' from DER, 119' left of centerline, 43' AGL/92' MSL. Bush 455' from DER, 463' left of centerline, 62' AGL/100' MSL. Trees beginning 456' from DER, 109' right of centerline, up to 55' AGL/99' MSL. Bushes beginning 500' from DER, 46' right of centerline, up to 53' AGL/96' MSL. Trees beginning 535' from DER, 249' right of centerline, up to 62' AGL/110' MSL. Bushes beginning 547' from DER, 26' right of centerline, up to 56' AGL/92' MSL. Tree 1170' from DER, 587' left of centerline, 82' AGL/111' MSL. Bushes beginning 1202' from DER, 248' left of centerline, up to 85' AGL/114' MSL. Bushes 2376' from DER, 653' right of centerline, 85' AGL/136' MSL. Bush beginning 2394' from DER, 451' right of centerline, up to 86' AGL/137' MSL. bush beginning 2563' from DER, 1037' right of centerline, up to 85' AGL/140' MSL. Bush beginning 2953' from DER, 958' right of centerline, up to 82' AGL/168' MSL. Tree beginning 3041' from DER, 762' right of centerline, up to 103' AGL/160' MSL. Bush beginning 3194' from DER, 1165' right of centerline, up to 91' AGL/190' MSL. Tree 3232' from DER, 723' right of centerline, 97' AGL/157' MSL. Bush beginning 3321' from DER, 1083' right of centerline, up to 89' AGL/185' MSL. Bushes beginning 4347' from DER, 954' left of centerline, up to 82' AGL/201' MSL. Bushes 4628' from DER, 1523' left of centerline, 86' AGL/202' MSL. Bushes beginning 4659' from DER, 924' left of centerline, up to 82' AGL/208' MSL. Bldgs beginning 5490' from DER, 530' left of centerline, up to 108' AGL/217' MSL.

BEVERLY, MA (CON'T)

Rwy 34, Nr MALS 11' from DER, on centerline, 2' AGL/109' MSL. Bush 41' from DER, 270' right of centerline, 18' AGL/119' MSL. Bush beginning 108' from DER, 399' right of centerline, up to 41' AGL/128' MSL. Bush 276' from DER, 518' right of centerline, 66' AGL/145' MSL. Bush 405' from DER, 452' right of centerline, 68' AGL/148' MSL. Tree 431' from DER, 580' left of centerline, 58' AGL/152' MSL. Tree 460' from DER, 582' left of centerline, 63' AGL/156' MSL. Bush beginning 461' from DER, 526' left of centerline, up to 63' AGL/154' MSL. Tree 695' from DER, 338' left of centerline, 40' AGL/142' MSL. Bush beginning 698' from DER, 282' left of centerline, up to 50' AGL/153' MSL. Tree 905' from DER, 222' left of centerline, 39' AGL/141' MSL. Bush beginning 940' from DER, 214' left of centerline, up to 34' AGL/135' MSL. Tree 1032' from DER, 700' right of centerline, 86' AGL/174' MSL. Bush beginning 1034' from DER, 89' right of centerline, up to 91' AGL/173' MSL. Bush beginning 1238' from DER, 300' right of centerline, up to 96' AGL/182' MSL. Pole, beginning 1309' from DER, 1' right of centerline, up to 9' AGL/158' MSL. Tree 1622' from DER, 214' right of centerline, 78' AGL/167' MSL. Bush beginning 1662' from DER, 458' right of centerline, up to 81' AGL/153' MSL. Tree 1682' from DER, 499' left of centerline, 80' AGL/165' MSL. Bush beginning 1686' from DER, 50' left of centerline, up to 71' AGL/166' MSL. Tree 1911' from DER, 427' left of centerline, 79' AGL/164' MSL. Bush beginning 1923' from DER, 22' left of centerline, up to 83' AGL/160' MSL.

BIDDEFORD, ME

BIDDEFORD MUNI (B19)

**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES**

ORIG 07298 (FAA)

TAKEOFF MINIMUMS: **Rwy 24**, 300-2 or std. w/ min. climb of 214' per NM to 600, or alternatively, w/ std. takeoff minimums and normal 200'/NM climb gradient, takeoff must occur no later than 1700 prior to DER.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, multiple trees beginning 121' from DER, 243' left of centerline, up to 60' AGL/229' MSL. Multiple trees beginning 23' from DER, 132' right of centerline, up to 60' AGL/219' MSL. Multiple trees beginning 538' from DER, 6' right of centerline, up to 60' AGL/229' MSL. **Rwy 24**, multiple trees beginning 342' from DER, 287' left of centerline, up to 60' AGL/219' MSL. Multiple trees beginning 492' from DER, 242' right of centerline, up to 60' AGL/209' MSL. Multiple trees beginning 1317' from DER, 44' right of centerline, up to 60' AGL/209' MSL. Assumed obstacle 1.7 NM from DER, 1802' right of centerline, 200' AGL/429' MSL.

BLOCK ISLAND, RI

BLOCK ISLAND STATE (BID)

**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES**

AMDT 3 10042 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 10**, bush 136' from DER, 183' left of centerline, 9' AGL/110' MSL. Tower 2736' from DER, 1203' left of centerline, 167' AGL/210' MSL.

Rwy 28, buildings with chimneys beginning 1105' from DER, 8' left of centerline, up to 30' AGL/196' MSL. Trees beginning 3' from DER, 4' left of centerline, up to 87' AGL/189' MSL. Trees beginning 380' from DER, 70' left of centerline, up to 78' AGL/186' MSL. Windmill with antennas 3437' from DER, 1005' right of centerline, 72' AGL/257' MSL.

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

NE-1

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

BOSTON, MA

GENERAL EDWARD LAWRENCE LOGAN INTL
(BOS)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 14A 17285 (FAA)

TAKEOFF MINIMUMS: **Rwy 32, 33R**, NA - environmental. **Rwy 4L**, 300-1' or std. w/min. climb of 358' per NM to 300. **Rwy 9**, 300-1¼' or std. w/min. climb of 272' per NM to 300. **Rwy 14**, 300-1¼' or std. w/min. climb of 225' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to DER. **Rwy 22L**, 300-1' or std. if tower reports no tall vessels in the departure area. **Rwy 22R**, 400-1¼' or std. w/min. climb of 320' per NM to 500. **Rwy 27**, std. w/min. climb of 477' per NM to 1300. **Rwy 33L**, 300-1¼' or std. w/min. climb of 224' per NM to 400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

DEPARTURE PROCEDURE: **Rwy 4L**, climb on a heading between 291° CW to 214° from DER, or min. climb of 210' per NM to 1100 for all other courses. **Rwy 14**, climb on a heading between 321° CW to 257° from DER, or min. climb of 236' per NM to 1100 for all other courses. **Rwy 22L**, climb heading 215° to 800 before turning right. **Rwy 22R**, climb heading 215° to 900 before turning right. **Rwy 33L**, climb heading 330° to 700 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 4L**, ships beginning 693' from DER, on centerline, up to 50' AGL/50' MSL. Tower and pole beginning 1803' from DER, 701' right of centerline, up to 56' AGL/68' MSL. Trees beginning 2278' from DER, 678' right of centerline, up to 57' AGL/77' MSL. Tree 2091' from DER, 91' left of centerline, 47' AGL/77' MSL. Building and trees beginning 3972' from DER, 543' left of centerline, up to 50' AGL/198' MSL. **Rwy 4R**, ships beginning 578' from DER, on centerline, up to 50' AGL/50' MSL. Trees, pole, and tower beginning 1807' from DER, 382' left of centerline, up to 30' AGL/68' MSL. Trees beginning 2282' from DER, 691' left of centerline, up to 57' AGL/77' MSL. **Rwy 9**, ships beginning 761' from DER, on centerline, up to 65' AGL/65' MSL. Tank and obstacle light beginning 5883' from DER, 1453' left of centerline, up to 120' AGL/217' MSL. **Rwy 14**, terrain 77' from DER, 454' left of centerline, 23' MSL. Building and ASR 462' from DER, 324' left of centerline, 36' AGL/73' MSL. Ship rig 5438' from DER, 1825' right of centerline, 176' AGL/176' MSL. **Rwy 15L**, sign 169' from DER, 278' right of centerline, 8' AGL/19' MSL. **Rwy 15R**, sign 45' from DER, 267' right of centerline, 15' AGL/16' MSL. **Rwy 22L**, pole 394' from DER, on centerline, 15' AGL/31' MSL. Ship rig 2440' from DER, 34' left of centerline, 176' AGL/176' MSL. Tower and light 3585' from DER, 926' left of centerline, 114' AGL/128' MSL. Cranes beginning 3675' from DER, 439' right of centerline, up to 146' AGL/146' MSL. **Rwy 22R**, ship rig 4064' from DER, 8' right of centerline, 176' AGL/176' MSL. Stack 1.4 NM from DER, 2755' right of centerline, 250' AGL/265' MSL. **Rwy 27**, light pole and rod beginning 1690' from DER, 750' right of centerline, up to 86' AGL/102' MSL. Buildings beginning 1.2 NM from DER, 126' left of centerline, up to 251' AGL/261' MSL. Buildings beginning 1.4 NM from DER, 1166' right of centerline, up to 261' AGL/274' MSL. Buildings beginning 1.6 NM from DER, 2654' right of centerline, up to 548' AGL/560' MSL. Buildings beginning 1.7 NM from DER, 1532' right of centerline, up to 620' AGL/643' MSL. Buildings beginning 1.93 NM from DER, 1507' right of centerline, up to 685' AGL/709' MSL. **Rwy 33L**, tree 248' from DER, 377' right of centerline, 16' AGL/27' MSL. Wind indicator 1403' from DER, 322' right of centerline, 19' AGL/59' MSL. Light on building and rod on tank beginning 1677' from DER, 603' left of centerline, up to 58' AGL/73' MSL. Trees beginning 2072' from DER, 51' right of centerline, up to 72' AGL/94' MSL. Sign 3015' from DER, 1123' right of centerline, 73' AGL/101' MSL. Tree 4001' from DER, 578' left of centerline, 43' AGL/119' MSL. Buildings 4363' from DER, 1082' left of centerline, 64' AGL/129' MSL. Building 5080' from DER, 1494' left of centerline, 71' AGL/149' MSL. Light on bridge 1.4 NM from DER, 2566' left of centerline, 262' AGL/262' MSL.

BOSTON, MA (CON'T)

GENERAL EDWARD LAWRENCE
LOGAN INTL (CONT.)

DIVERSE VECTOR AREA (RADAR
VECTORS)

ORIG 16119 (FAA)

Rwy 14, heading as assigned by ATC; requires minimum climb of 240' per NM to 1100. **Rwy 22L**, heading as assigned by ATC; requires minimum climb of 330' per NM to 1200. **Rwy 22R**, heading as assigned by ATC; requires minimum climb of 310' per NM to 500. **Rwy 33L**, heading as assigned by ATC; requires minimum climb of 300' per NM to 1200.

BRIDGEPORT, CT

IGOR I. SIKORSKY MEMORIAL
(BDR)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 5 11293 (FAA)

TAKEOFF MINIMUMS: **Rwy 29**, 600-2¾' or std. w/min. climb of 300' per NM to 700.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, fence 14' from DER, 95' left of centerline, 17' AGL/18' MSL. Vehicles on road beginning 79' from DER, 1' right of centerline, up to 15' AGL/25' MSL. **Rwy 11**, vehicles on road beginning 195' from DER, 127' left of centerline, up to 15' AGL/28' MSL. Vehicles on road and poles beginning 207' from DER, 6' right of centerline, up to 73' AGL/73' MSL. **Rwy 24**, vehicles on road beginning 484' from DER, 537' right of centerline, up to 15' AGL/25' MSL. **Rwy 29**, building 555' from DER, 622' right of centerline, 57' AGL/59' MSL. Stack 2.2 NM from DER, 275' left of centerline, 497' AGL/512' MSL.

BRUNSWICK, ME

BRUNSWICK EXECUTIVE (BXM)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 11237 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 1L**, tree 2018' from DER, 943' right of centerline, 100' AGL/159' MSL. Trees beginning 2272' from DER, 335' left of centerline, up to 100' AGL/159' MSL. **Rwy 1R**, tree 1985' from DER, 345' right of centerline, 100' AGL/156' MSL. Tree 2823' from DER, 1045' left of centerline, 100' AGL/159' MSL. **Rwy 19L**, trees beginning 2170' from DER, 457' left of centerline, up to 100' AGL/179' MSL. Tree 2136' from DER, 498' right of centerline, 100' AGL/169' MSL. **Rwy 19R**, trees beginning 2137' from DER, 201' left of centerline, up to 100' AGL/179' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

BURLINGTON, VT

BURLINGTON INTL (BTV)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 13 10210 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, std. w/ min. climb of 290' per NM to 3200 or 3000-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 375' per NM to 5900 or 3000-3 for climb in visual conditions. **Rwy 19**, std. w/ min. climb of 290' per NM to 5300 or 3000-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 210' per NM to 2400 or 3000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climb heading 006° to 3200 before proceeding on course or for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course. **Rwy 15**, for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course. **Rwy 19**, climb heading 186° to 3200 before proceeding on course or for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course. **Rwy 33**, climb heading 326° to 2400 before proceeding on course or for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, trees beginning 1396' from DER, 216' right of centerline, up to 64' AGL/384' MSL trees 1694' from DER, 200' left of centerline, up to 80' AGL/380' MSL. **Rwy 15**, bush 318' from DER, 292' left of centerline, up to 23' AGL/343' MSL. Trees beginning 1418' from DER, 358' right of centerline, up to 27 feet AGL/387' MSL. Hopper and trees beginning 1801' from DER, 377' left of centerline, up to 63' AGL/403' MSL. Building 3453' from DER, 1145' left of centerline, 110' AGL/430' MSL. **Rwy 19**, trees beginning 168' from DER, 24' right of centerline, up to 56' AGL/436' MSL. Trees beginning 172' from DER, 184' left of centerline, up to 93' AGL/413' MSL. **Rwy 33**, pole and trees beginning 971' from DER, 755' left of centerline, up to 97' AGL/357' MSL. Trees 1091' from DER, 590' right of centerline, up to 34' AGL/334' MSL.

CARRABASSETT, ME

CARRABASSETT (CAR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 95061 (FAA)

TAKEOFF MINIMUMS: **Rwys 1, 11, 19, 29**, 300-1.**CARRABASSETT, ME**

SUGARLOAF RGNL (B21)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 17285 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 1200-3 w/min. climb of 530' per NM to 4700 or 3800-3 for climb in visual conditions. **Rwy 35**, 3800-3 for climb in visual conditions. DEPARTURE PROCEDURE: **Rwy 17**, climb heading 173° to 4700 before proceeding on course.

VCOA: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Sugarloaf Rgnl airport at or above 4500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 17**, trees and terrain beginning 30' from DER, left and right of centerline, up to 100' AGL/970' MSL. Trees and terrain beginning 468' from DER, 19' right of centerline, up to 100' AGL/980' MSL. Trees and terrain beginning 2171' from DER, left and right of centerline, up to 100' AGL/1039' MSL. Trees and terrain beginning 4012' from DER, left and right of centerline, up to 100' AGL/1291' MSL. Trees and terrain beginning 1 NM from DER 456' left and right of centerline, up to 100' AGL/1593' MSL. Trees and terrain beginning 1.6 NM from DER, left and right of centerline, up to 100' AGL/1861' MSL. Trees and terrain beginning 2.75 NM from DER, 2831' left of centerline, up to 100' AGL/2020' MSL. Trees and terrain beginning 3 NM from DER, 1192' left of centerline, up to 100' AGL/1900' MSL. **Rwy 35**, trees and terrain beginning 38' from DER, left and right of course, up to 100' AGL/890' MSL. Trees and terrain beginning 495' from DER, 388' right of centerline, up to 100' AGL/909' MSL. Trees and terrain beginning 1128' from DER, 140' right of centerline, up to 100' AGL/1086' MSL. Trees and terrain beginning 4065' from DER, left and right of centerline, up to 100' AGL/1126' MSL. Trees and terrain beginning 4435' from DER, 44' left of centerline, up to 100' AGL/1319' MSL. Trees and terrain beginning 1 NM from DER, left and right of centerline, up to 100' AGL/1355' MSL. Trees and terrain beginning 1.1 NM from DER, left and right of centerline, up to 100' AGL/1392' MSL. Trees and terrain beginning 1.2 NM from DER, 199' left of centerline, up to 100' AGL/1398' MSL. Trees and terrain beginning 1.3 NM from DER, left and right of centerline, up to 100' AGL/1447' MSL. Trees and terrain beginning 1.4 NM from DER, left and right of centerline, up to 100' AGL/1474' MSL. Trees and terrain beginning 1.5 NM from DER, 233' left of centerline, up to 100' AGL/1477' MSL.

CHATHAM, MA

CHATHAM MUNI (CQX)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 07298 (FAA)

TAKEOFF MINIMUMS: **Rwy 6**, 300-1 or std. w/ min. climb of 462' per NM to 300. **Rwy 24**, 400-2 or std. w/ min. climb of 248' per NM to 500.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, multiple trees beginning 26' from DER, 158' left of centerline, up to 100' AGL/169' MSL. Multiple trees beginning 62' from DER, 245' right of centerline, up to 100' AGL/159' MSL. **Rwy 24**, multiple trees beginning 179' from DER, 216' left of centerline, up to 100' AGL/159' MSL. Multiple trees beginning 318' from DER, 227' right of centerline, up to 100' AGL/159' MSL. Tower 1.6 NM from DER, 2526' right of centerline, 313' AGL/318' MSL.

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

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01 FEB 2018 to 01 MAR 2018

01 FEB 2018 to 01 MAR 2018

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

CHESTER, CT**CHESTER (SNC)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 10322 (FAA)

TAKEOFF MINIMUMS: **Rwy 35**, 300-3 or std. w/min. climb of 285' per NM to 900.TAKEOFF OBSTACLE NOTES: **Rwy 17**, trees beginning at DER, 350' left of centerline CW to 250' right of centerline, up to 100' AGL/449' MSL. **Rwy 35**, tree 6015' from DER, 586' right of centerline 100' AGL/609' MSL. Tree 1.7 NM from DER, 847' right of centerline 200' AGL/709' MSL. Tree line beginning 100' from DER, 250' left of centerline to 1000' right of centerline, up to 100' AGL/469' MSL.**CLAREMONT, NH****CLAREMONT MUNI (CNH)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 05244 (FAA)

TAKEOFF MINIMUMS: **Rwy 11**, 700-3 or std. w/min. climb of 490' per NM to 1400, or 3100-2½ for climb in visual conditions. **Rwy 29**, 1300-3 or 3100-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 11, 29**, climb in visual conditions to cross Claremont Muni at or above 3000.TAKEOFF OBSTACLE NOTES: **Rwy 11**, multiple trees and towers on rising terrain, 1.5 NM from DER, 3000' right of centerline, and 1.6 NM from DER, 2660' left of centerline, up to 200' AGL/1143' MSL. **Rwy 29**, multiple trees on rising terrain, 1.1 NM from DER, 800' left of centerline, and 1.3 NM from DER, 2000' right of centerline, up to 80' AGL/1044' MSL. Trees and towers 2 NM from DER on centerline, up to 200' AGL/929' MSL.**CONCORD, NH****CONCORD MUNI (CON)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4 14149 (FAA)

TAKEOFF MINIMUMS: **Rwy 12**, std. w/min. climb of 305' per NM to 1000 or 1300-2½ for climb in visual conditions.**Rwy 17**, 300-2¼ or std. w/min. climb of 260' per NM to 700. **Rwy 30**, std. w/min. climb of 235' per NM to 1200 or 1300-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 800 then climbing right turn to CON VORTAC before proceeding on course, or for climb in visual conditions cross Concord Muni airport at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 17**, climb heading 171° to 1000 before turning left. **Rwy 30**, climb heading 301° to 900 before proceeding on course, or for climb in visual conditions cross Concord Muni airport at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 35**, climb heading 341° to 1200 before proceeding on course.TAKEOFF OBSTACLE NOTES: **Rwy 12**, tree abeam DER, 267' left of centerline, 16' AGL/361' MSL. Tree 6' from DER, 353' right of centerline, 54' AGL/396' MSL. Trees beginning 88' from DER, 7' left of centerline, up to 69' AGL/391' MSL. Trees beginning 106' from DER, 100' right of centerline, up to 52' AGL/394' MSL. Pole 483' from DER, 324' right of centerline, 45' AGL/376' MSL. Trees beginning 1032' from DER, 131' left of centerline, up to 86' AGL/421' MSL. Trees beginning 1075' from DER, 207' right of centerline, up to 100' AGL/431' MSL. Tree 1.1NM from DER, 2142' right of centerline, 107' AGL/513' MSL. Tree beginning 1.5NM from DER, 2160' left of centerline, 76' AGL/622' MSL. **Rwy 17**, trees beginning 95' from DER, 285' left of centerline, up to 88' AGL/378' MSL. Trees beginning 984' from DER, 509' right of centerline, up to 77' AGL/406' MSL. Tree 1252' from DER, 658' left of centerline, 69' AGL/371' MSL. Trees beginning 1.3NM from DER, 1048' left of centerline, up to 102' AGL/618' MSL. Tower 1.6NM from DER, 2080' left of centerline, 90' AGL/607' MSL. **Rwy 30**, trees and poles beginning 554' from DER, 330' right of centerline, up to 59' AGL/400' MSL. Tower 613' from DER, 580' left of centerline, 38' AGL/378' MSL. Building 627' from DER, 184' right of centerline, 21' AGL/362' MSL. Trees beginning 1132' from DER, 271' left of centerline, up to 98' AGL/430' MSL. Tower 1177' from DER, 381' left of centerline, 47' AGL/385' MSL. Building 1190' from DER, 390' left of centerline, 41' AGL/379' MSL. Building 1734' from DER, 522' right of centerline, 60' AGL/399' MSL. Trees beginning 1893' from DER, 126' left of centerline, up to 112' AGL/442' MSL. Trees beginning 2108' from DER, 47' right of centerline, up to 105' AGL/437' MSL. **Rwy 35**, fence 259' from DER, 492' left of centerline, 8' AGL/348' MSL. Vehicle on road beginning 276' from DER, 91' left of centerline, 15' AGL/372' MSL. Buildings beginning 296' from DER, 256' left of centerline, up to 21' AGL/362' MSL. Trees beginning 409' from DER, 60' left of centerline, up to 62' AGL/403' MSL. Trees beginning 539' from DER, 17' right of centerline, up to 72' AGL/415' MSL. Poles beginning 643' from DER, 53' right of centerline, up to 34' AGL/376' MSL. Poles beginning 703' from DER, 276' left of centerline, up to 41' AGL/381' MSL. Trees beginning 1142' from DER, 20' left of centerline, up to 102' AGL/440' MSL. Trees beginning 1298' from DER, 39' right of centerline, up to 87' AGL/430' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

DANBURY, CT

DANBURY MUNI (DXR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4 12124 (FAA)

TAKE OFF MINIMUMS: **Rwy 17**, NA - terrain. **Rwy 8**, 600-2. **Rwy 26**, 600-2½. **Rwy 35**, std. w/min. climb of 470' per NM to 1100 or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 084° to 1200 before turning. **Rwy 26**, climb heading 264° to 1300 before turning. **Rwy 35**, for climb in visual conditions, cross Danbury Muni at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 8**, vehicles on roadway 93' from DER, 222' right of centerline, up to 15' AGL/480' MSL. Pole 308' from DER, 185' right of centerline, 39' AGL/505' MSL. Buildings beginning 316' from DER, 366' left of centerline, up to 35' AGL/499' MSL. Pole 691' from DER, 150' right of centerline, 56' AGL/524' MSL. Pole 885' from DER, 333' left of centerline, 62' AGL/532' MSL. Building 1876' from DER, 520' left of centerline, 61' AGL/646' MSL. Pole 2017' from DER, 201' right of centerline, 96' AGL/701' MSL. Trees and pole beginning 2372' from DER, 28' right of centerline, up to 105' AGL/799' MSL. Building 1.5 NM from DER, 786' right of centerline, 118' AGL/722' MSL. Tower 1.5 NM from DER, 2377' right of centerline, 275' AGL/1015' MSL. **Rwy 26**, terrain 85' from DER, 240' left of centerline, 461' MSL. Trees beginning 1543' from DER, 910' left of centerline, up to 100' AGL/959' MSL. Pole 1.2 NM from DER, 915' left of centerline, 100' AGL/709' MSL. Pole 2 NM from DER, 1375' left of centerline, 82' AGL/825' MSL. **Rwy 35**, fence 43' from DER, 59' left of centerline, 18' AGL/458' MSL. Vehicles on roadway 77' from DER, left and right of centerline, up to 15' AGL/467' MSL. Poles beginning 416' from DER, left and right of centerline, up to 72' AGL/505' MSL. Building 916' from DER, 462' right of centerline, 95' AGL/521' MSL. Trees beginning 1.3 NM from DER, 427' right of centerline, up to 100' AGL/839' MSL. Building 1.2 NM from DER, 695' right of centerline, 62' AGL/722' MSL. Building 1.4 NM from DER, 187' right of centerline, 59' AGL/758' MSL.

DANIELSON, CT

DANIELSON (LZD)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 93231 (FAA)

TAKEOFF MINIMUMS: **Rwy 13**, 700-2 or std. with a min. climb of 300' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 1100 before turning on course. **Rwy 31**, climb to 1000 feet before turning on course.

DEBLOIS, ME

DEBLOIS FLIGHT STRIP (43B)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 18032 (FAA)

DEPARTURE PROCEDURE: **Rwy 33**, use DEBLOIS departure.

DEXTER, ME

DEXTER RGNL (1B0)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 12096 (FAA)

TAKEOFF MINIMUMS: **Rwys 7, 25**, NA, Turf. **Rwy 34**, 600 -2½ or std. w/min. climb of 355' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 1200 before turning northeast bound. **Rwy 34**, climb heading 337° to 1300 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 16**, trees, power lines, vehicles, and buildings beginning 105' from DER, left and right of centerline, up to 100' AGL/629' MSL.

Rwy 34, trees beginning 53' from DER, left and right of centerline, up to 100' AGL/619' MSL.

EASTPORT, ME

EASTPORT MUNI (EPM)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 94174 (FAA)

TAKEOFF MINIMUMS: **Rwy 33**, 300-1 or std. with a min. climb of 240' per NM to 300.

ELIOT, ME

LITTLEBROOK AIR PARK (3B4)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 03247 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 12**, house 118' right of DER, 23' AGL/129' MSL. Brush 200' from DER, 66' left of centerline, 16' AGL/122' MSL. Trees 345' from DER, 140' left of centerline, 71' AGL/130' MSL. **Rwy 30**, trees 220' from DER, 125' right of centerline, 19' AGL/144' MSL. Brush 100' right of DER, 20' AGL/159' MSL.

FITCHBURG, MA

FITCHBURG MUNI (FIT)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 5 05244 (FAA)

TAKEOFF MINIMUMS: **Rwys 2, 14, 20**, NA-obstacles.

Rwy 32, std. with a min. climb of 314' per NM to 1600, or 1500-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 32**, climb via heading 324° to 2600 before proceeding on course. For climb in visual conditions: cross Fitchburg Muni Airport at or above 1800.

TAKEOFF OBSTACLE NOTES: **Rwy 32**, multiple trees beginning 144' from DER, 260' left of centerline up to 100' AGL/796' MSL, multiple trees beginning 36' from DER, 150' right of centerline up to 100' AGL/796' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

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FRENCHVILLE, ME

NORTHERN AROOSTOOK RGNL (FVE)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 07298 (FAA)

TAKEOFF MINIMUMS: **Rwy 32**, 300-1¼ or std. w/ min. climb of 503' per NM to 1300.TAKEOFF OBSTACLE NOTES: **Rwy 14**, trees beginning 101' from DER, 348' right of centerline, up to 80' AGL/1079' MSL. **Rwy 32**, trees beginning 3128' from DER, 952' left of centerline, up to 80' AGL/1179' MSL, trees beginning 1608' from DER, 433' right of centerline, up to 80' AGL/1119' MSL.**FRYEBURG, ME**

EASTERN SLOPES RGNL (IZG)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4A 10070 (FAA)

TAKEOFF MINIMUMS: **Rwy 14**, std. with a min. climb of 310' per NM to 2100, or 1600-3 for climb in visual conditions. **Rwy 32**, 2200-2 with a min. climb of 471' per NM to 6600.DEPARTURE PROCEDURE: **Rwy 14**, climb heading 143° to 3000 before turning. For climb in visual conditions cross Eastern Slopes Rgnl airport at or above 3800 before proceeding on course. **Rwy 32**, for climb in visual conditions cross Eastern Slopes Rgnl airport at or above 3800 before proceeding on course.TAKEOFF OBSTACLE NOTES: **Rwy 32**, tree 454' from DER, 558' left of centerline, 100' AGL/579' MSL. Trees beginning 1249' from DER, 734' right of centerline, up to 100' AGL/659' MSL. Trees and tower beginning 1.1 NM from DER, 2155' left of centerline, up to 100' AGL/1139' MSL.**GARDNER, MA**

GARDNER MUNI (GDM)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 13010 (FAA)

TAKEOFF-MINIMUMS: **Rwys 18, 36**, 1000-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 18, 36**, for climb in visual conditions, cross Gardner Muni airport at or above 1900 before proceeding on course. When executing VCOA, notify ATC prior to departure.TAKEOFF OBSTACLE NOTES: **Rwy 18**, trees beginning 3' from DER, 470' right of centerline, up to 100' AGL/1183' MSL. Trees beginning 58' from DER, 172' left of centerline, up to 100' AGL/1183' MSL. Trees beginning 1.0 NM from DER, 1579' left of centerline, up to 100' AGL/1229' MSL. Trees beginning 1.3 NM from DER, 2535' right of centerline, up to 100' AGL/1163' MSL. **Rwy 36**, trees beginning 130' from DER, 260' right of centerline, up to 100' AGL/1091' MSL. Trees beginning 159' from DER, 436' left of centerline, up to 100' AGL/1104' MSL.**GREAT BARRINGTON, MA**

WALTER J KOLADZA (GBR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 13122 (FAA)

TAKEOFF MINIMUMS: **Rwy 11**, std. w/ min. climb of 570' per NM to 2500' or 2300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 405' per NM to 2600' or 2300-3 for climb in visual conditions.DEPARTURE PROCEDURE: **Rwy 11**, climb heading 110° to 2500 before proceeding on course or for climb in visual conditions: cross Walter J. Koladza airport at or above 2900 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 29**, climb heading 290° to 2600 before proceeding on course or for climb in visual conditions: cross Walter J. Koladza airport at or above 2900 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.TAKEOFF OBSTACLE NOTES: **Rwy 11**, vehicles beginning 5' from DER, from 253' left to 531' right of centerline, up to 15' AGL/740' MSL. Trees beginning 55' from DER, from 282' left of centerline to 898' left of centerline, up to 100' AGL/ 854' MSL. Trees beginning 505' from DER, 496' right of centerline, up to 100' AGL/ 854' MSL. Trees beginning 1337' from DER, 91' right of centerline, up to 100' AGL/ 874' MSL. Vehicles beginning at 1635' from DER, from 951' left to 926' right of centerline, up to 15' AGL/ 740' MSL. **Rwy 29**, vehicles beginning 16' from DER, 471' left of centerline to 1815' right of centerline, up to 15' AGL/ 864' MSL. Trees beginning 19' from DER, from 249' to 1532' right of centerline, up to 100' AGL/ 844' MSL. Trees beginning 19' from DER, from 495' to 2608' left of centerline, up to 100' AGL/ 844' MSL. Trees beginning 496' from DER, 495' left of centerline, up to 100' AGL/844' MSL. Trees beginning 250' from DER, 249' right of centerline, up to 100' AGL/844' MSL. Trees beginning 429' from DER, 17' left of centerline, up to 100' AGL/ 834' MSL. Vehicles beginning at 1562' from DER, from 897' left to 826' right of centerline, up to 15' AGL/759' MSL. Trees beginning 1650' from DER, 154' right of centerline, up to 100' AGL/844' MSL.

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GREENVILLE, ME

GREENVILLE MUNI (3B1)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 94202 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, 1000-3.

Rwys 21, 32, 300-1.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn heading 005° to 3000 before proceeding on course.

Rwys 14, 21, climb runway heading to 3000 before proceeding on course. **Rwy 32**, climbing right turn heading 005° to 3000 before proceeding on course.

GREENVILLE (52B)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 14205 (FAA)

TAKEOFF MINIMUMS: **Sea Lane 14**, std. w/min. climb of 849' per NM to 2200 or 500-2½ w/min. climb of 280' per NM to 2600 or 3900-3 for climb in visual conditions.

Sea Lane 18, std. w/min. climb of 370' per NM to 2800 or 3900-3 for climb in visual conditions. **Sea Lane 32**, std. w/min. climb of 685' per NM to 2500 or 700-1½ w/min. climb of 300' per NM to 4000 or 3900-3 for climb in visual conditions. **Sea Lane 36**, std. w/min. climb of 270' per NM to 3300 or 3900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Sea Lane 14**, climb on heading 140° to 3300 before proceeding on course or for climb in visual conditions: cross Greenville at or above 3800 MSL before proceeding on course. **Sea Lane 18**, climb heading 180° to 2800 before proceeding on course or for climb in visual conditions: cross Greenville at or above 3800 MSL before proceeding on course. **Sea Lane 32**, climb on heading 335° to 4000 before proceeding on course or for climb in visual conditions: cross Greenville at or above 3800 MSL before proceeding on course. **Sea Lane 36**, climb heading 360° to 3600 before proceeding on course or for climb in visual conditions: cross Greenville at or above 3800 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Sea Lane 14**, trees beginning 4116' prior to DER, 296' left of centerline, up to 80' AGL/1119' MSL. Trees beginning 3063' prior to DER, 191' right of centerline, up to 80' AGL/1159' MSL. Boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL. Trees beginning 2' from DER, 167' left of centerline, up to 80' AGL/1179' MSL. **Sea Lane 18**, trees beginning 2274' prior to DER, 370' left of centerline, up to 80' AGL/1119' MSL. Boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL. Trees beginning 711' from DER, 621' right of centerline, up to 80' AGL/1179' MSL. Trees beginning 1212' from DER, 783' left of centerline, up to 80' AGL/1139' MSL. **Sea Lane 32**, trees beginning 3390' prior to DER, 191' left of centerline, up to 80' AGL/1159' MSL. Trees beginning 2976' prior to DER, 296' right of centerline, up to 80' AGL/1119' MSL. Boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL. Trees beginning 2328' from DER, 1082' right of centerline, up to 80' AGL/1179' MSL. **Sea Lane 36**, trees beginning 2755' prior to DER, 370' right of centerline, up to 80' AGL/1119' MSL. Trees beginning 571' prior to DER, 290' left of centerline, up to 80' AGL/1119' MSL. Boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL. Trees beginning 694' from DER, 381' left of centerline, up to 80' AGL/1179' MSL. Trees beginning 2440' from DER, 650' right of centerline, up to 80' AGL/1119' MSL.

GROTON (NEW LONDON), CT

GROTON-NEW LONDON (GON)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 8 12040 (FAA)

TAKEOFF MINIMUMS: **Rwy 5**, 300-2 or std. w/min. climb gradient of 260' per NM to 400. **Rwy 15**, 300-1 or std. w/min. climb gradient of 425' per NM to 300. **Rwy 33**, 300-1½ or std. w/min. climb of 380' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 33**, climb on GON VOR/DME R-335 to 2000 before proceeding on course. TAKEOFF OBSTACLE NOTES: **Rwy 23**, bush 570' from DER, 490' right of centerline, 12' AGL/21' MSL. Tree 2770' from DER, 700' left of centerline, 50' AGL/76' MSL. **Rwy 5**, REIL 74' from DER, 151' left of centerline, 3' AGL/9' MSL. Fence beginning 186' from DER, 186' right of centerline, up to 7' AGL/18' MSL. Vehicle on road 215' from DER, 501' left of centerline, 15' AGL/30' MSL. Multiple poles beginning 205' from DER, 474' left of centerline, up to 30' AGL/52' MSL. Multiple trees beginning 416' from DER, right and left of centerline, up to 80' AGL/94' MSL. Multiple trees beginning 6918' from DER, right and left of centerline, up to 80' AGL/286' MSL. **Rwy 15**, bush 54' from DER, 238' right of centerline, 4' AGL/11' MSL. Trees beginning 1703' from DER, right and left of centerline, up to 81' AGL/153' MSL. **Rwy 33**, multiple trees beginning 106' from DER, left and right of centerline, up to 50' AGL/219' MSL. Multiple poles beginning 163' from DER, right and left of centerline, up to 20' AGL/48' MSL. Railroad 201' from DER, 163' left of centerline, 15' AGL/32' MSL. Multiple poles beginning 4279' from DER, 235' left of centerline, up to 100' AGL/207' MSL. Tank 5144' from DER, 926' left of centerline, 88' AGL/225' MSL.

HARTFORD, CT

HARTFORD-BRAINARD (HFD)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 5 10210 (FAA)

TAKEOFF MINIMUMS: **Rwys 11,29**, NA-Environmental.

Rwy 20, 300-1½ or std. w/min. climb of 217' per NM to 300, alternatively, with standard TAKEOFF minimums and a normal 200'/NM climb gradient, TAKEOFF must occur no later than 1500' prior to DER.

DEPARTURE PROCEDURE: **Rwy 2**, climb heading 024° to 1000 before turning left. **Rwy 20**, climb heading 175° to 1300 before turning right.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, pipe on obstruction light building, beginning 376' from DER, 593' left of centerline, up to 25' AGL/57' MSL. Bushes beginning 587' from DER, 186' left of centerline, up to 10' AGL/54' MSL. Trees beginning 765' from DER, 59' left of centerline, up to 100' AGL/134' MSL. Trees beginning 57' from DER, 46' right of centerline, up to 100' AGL/125' MSL. Obstruction light on levee 189' from DER, on centerline to 154' right of centerline, up to 22' AGL/45' MSL. **Rwy 20**, levee 56' from DER, 453' left of centerline, up to 24' AGL/42' MSL. Trees and bushes beginning 160' from DER, 118' left of centerline, up to 100' AGL/119' MSL. Obstruction light on dike beginning 493' from DER, 277' left of centerline, up to 27' AGL/45' MSL. Spires 1.12 NM from DER, 403' left of centerline, 150' AGL/195' MSL. Lights beginning 196' from DER, 400' right of centerline, up to 24' AGL/42' MSL. Trees beginning 798' from DER, 28' right of centerline, up to 100' AGL/142' MSL. Dam 885' from DER, 52' left of centerline, 27' AGL/45' MSL.

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HAVERHILL, NH**DEAN MEMORIAL (5B9)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 07074 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, std. w/ min. climb of 339' per NM to 2000, or 1800-2 for climb in visual conditions. **Rwy 19**, NA terrain.

DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn heading 240° and LEB VOR/DME R-029 to 4800 before proceeding on course. Do not exceed 180 KIAS until established on LEB VOR/DME R-029. For climb in visual conditions: Cross Dean Memorial Airport southwest bound at or above 2200 via LEB VOR/DME R-036 to 5000 before proceeding on course. Do not exceed 180 KIAS until established on LEB VOR/DME R-036.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, multiple buildings beginning 180' from DER, 74' left of centerline, up to 25' AGL/571' MSL. Building 300' from DER, 100' right of centerline, 35' AGL/584' MSL. Vehicles at DER, beginning 500' right of centerline, to 500' left of centerline 15' AGL/596' MSL. Multiple trees beginning 1450' from DER left and right of centerline, up to 100' AGL/599' MSL. Multiple trees beginning 1.3 NM from DER left and right of centerline, up to 100' AGL/819' MSL. Multiple trees and towers beginning 1.7 NM from DER left and right of centerline, up to 200' AGL/919' MSL.

HIGHGATE, VT**FRANKLIN COUNTY STATE (FSO)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 11181 (FAA)

TAKEOFF MINIMUMS: **Rwy 19**, 500-2¾ or std. w/min. climb of 316' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 19**, climbing right turn heading 240° to 1700 before turning east.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, vehicles on road beginning at DER, 459' left of centerline, up to 15' AGL/234' MSL. Trees beginning 182' from DER, 47' right of centerline, up to 100' AGL/359' MSL. Trees beginning 454' from DER, 20' left of centerline, up to 100' AGL/289' MSL. **Rwy 19**, vehicles on road beginning 1' from DER, 240' right of centerline, up to 15' AGL/240' MSL. Trees beginning 215' from DER, 313' right of centerline, up to 90' AGL/309' MSL. Trees beginning 628' from DER, 660' left of centerline, up to 62' AGL/281' MSL. Pole 688' from DER, 656' left of centerline, 43' AGL/262' MSL. Catenary 1299' from DER, 734' left of centerline, 44' AGL/263' MSL.

HOPEDALE, MA**HOPEDALE INDUSTRIAL PARK (1B6)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 95341 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 320' per NM to 900. **Rwy 36**, 600-1 or std. with a min. climb of 280' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 900 before turning on course. **Rwy 36**, climb runway heading to 1100 before turning on course.

HOULTON, ME**HOULTON INTL (HUL)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 11237 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, 300-1½ or std. w/min. climb of 429' per NM to 900. **Rwy 5**, 300-1½ or std. with min. climb of 340' per NM to 900. **Rwy 19**, 500-3. **Rwy 23**, 400-1½ or std. w/min. climb of 389' per NM to 1000. DEPARTURE PROCEDURE: **Rwy 23**, Climb heading 229° to 1000 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, trees beginning 109' from DER, 170' left of centerline, up to 100' AGL/739' MSL. Tree 141' from DER, 241' right of centerline, 100' AGL/579' MSL. Vehicle on roadway 520' from DER, 7' left of centerline, 15' AGL/494' MSL. **Rwy 5**, trees beginning 144' from DER, 155' left of centerline, up to 100' AGL/599' MSL. Trees beginning 432' from DER, 557' right of centerline, up to 100' AGL/779' MSL. **Rwy 19**, trees beginning 2331' from DER, 610' left of centerline, up to 100' AGL/939' MSL. Trees beginning 2580' from DER, 414' right of centerline, up to 100' AGL/949' MSL. **Rwy 23**, trees beginning 427' from DER, 411' left of centerline, up to 100' AGL/829' MSL. Trees beginning 52' from DER, 309' right of centerline, up to 100' AGL/619' MSL.

HYANNIS, MA**BARNSTABLE MUNI-BOARDMAN/****POLANDO FIELD (HYA)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3A 08269 (FAA)

TAKEOFF MINIMUMS: **Rwy 33**, 300-1 or std. with a min. climb of 354' per NM to 300.

DEPARTURE PROCEDURE: **Rwys 24,33**, climb runway heading to 700 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 33**, pole 3961' from DER, 1531' right of centerline, 97' AGL/235' MSL.

JAFFREY, NH**JAFFREY AIRPORT-SILVER RANCH (AFN)**

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 14149 (FAA)

TAKEOFF MINIMUMS: **Rwys 16, 34**, 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 16, 34**, for climb in visual conditions: cross Jaffrey airport-Silver Ranch at or above 1900, then via the GDM VOR/DME R-023 to GDM. When executing VCOA, notify ATIS prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 16**, trees beginning 126' from DER, 140' left of centerline, up to 100' AGL/1209' MSL. Trees beginning 189' from DER, 120' right of centerline, up to 100' AGL/1520' MSL. **Rwy 34**, trees beginning 8263' from DER, 613' left of centerline, up to 100' AGL/1441' MSL. Trees beginning 13' from DER, 69' right of centerline, up to 100' AGL/1322' MSL.

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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KEENE, NH

DILLANT-HOPKINS (EEN)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 5 97282 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 1200-2. **Rwy 14**, 2200-2 or std. with a min. climb of 450' per NM to 2500. **Rwy 20**, 1000-2 or std. with a min. climb of 320' per NM to 1700. **Rwy 32**, 1600-2.

DEPARTURE PROCEDURE: **Rwy 2**, climb runway heading to 2100, then climbing left turn to assigned altitude direct EEN VORTAC before proceeding on course. **Rwy 14**, climb runway heading to 2500, then climbing right turn to assigned altitude direct EEN VORTAC before proceeding on course. **Rwy 20**, climb direct EEN VORTAC until passing 3000, if not at 3000 or above at EEN VORTAC climb in EEN holding pattern; (NE, right turns, 215° inbound) before proceeding on course. **Rwy 32**, climbing right turn heading 350° to 2100, then climbing left turn to assigned altitude direct EEN VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, 81' AGL trees 400' from DER and 500' right of centerline. **Rwy 32**, 89' AGL trees 800' from DER and 600' right of centerline.

LACONIA, NH

LACONIA MUNI (LCI)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 09127 (FAA)

TAKEOFF MINIMUMS: **Rwy 8**, 600-1¾ or std. w/ min. climb of 652' per NM to 1300. **Rwy 26**, 300-1 or std. w/ min. climb of 421' per NM to 900.

DEPARTURE PROCEDURE: **Rwy 8**, climb to 2500 via heading 079° and ENE VORTAC R-315 inbound to 3500 before proceeding on course. **Rwy 26**, climb heading 264° to 2500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 8**, trees, terrain, and pole beginning 65' from DER, 20' right of centerline, up to 50' AGL/1112' MSL. Trees and terrain beginning 93' from DER, 5' left of centerline, up to 71' AGL/590' MSL. **Rwy 26**, trees and antenna on tower beginning 123' from DER, 42' left of centerline, up to 84' AGL/743' MSL. Trees beginning 2145' from DER, 626' right of centerline, up to 93' AGL/672' MSL.

LAWRENCE, MA

LAWRENCE MUNI (LWM)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 11069 (FAA)

TAKEOFF MINIMUMS: **Rwy 5**, 300-1½ or std. with a min. climb of 419' per NM to 500. **Rwy 14**, 300-1 or std. with a min. climb of 601' per NM to 600. **Rwy 23**, 300-1 or std. with a min. climb of 334' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 5**, climb heading 053° to 1100 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, trees beginning 288' from DER, 44' left of centerline, up to 86' AGL/282' MSL. Pole and trees beginning 544' from DER, 403' right of centerline, up to 75' AGL/281' MSL. Trees 3731' from DER, 1052' right of centerline, up to 86' AGL/331' MSL. Trees 1.2 NM from DER, 41' right of centerline, up to 89' AGL/354' MSL. **Rwy 14**, bush, pole, and trees beginning 150' from DER, 9' left of centerline, up to 59' AGL/186' MSL. Bush, buildings, poles, and trees beginning 102' from DER, 19' right of centerline, up to 94' AGL/290' MSL. Rod on pole 3473' from DER, 1391' right of centerline, 73' AGL/417' MSL. **Rwy 23**, bush and trees beginning 176' from DER, 464' left of centerline, up to 53' AGL/160' MSL. Bush 117' from DER, 183' right of centerline, up to 13' AGL/140' MSL. Stack 3768' from DER, 1310' right of centerline, 260' AGL/295' MSL. **Rwy 32**, trees 159' from DER, 198' left of centerline, up to 54' AGL/141' MSL. Trees beginning 120' from DER, 156' right of centerline, up to 60' AGL/177' MSL.

LEBANON, NH

LEBANON MUNI (LEB)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 09015 (FAA)

TAKEOFF MINIMUMS: **Rwy 7**, 300-1 w/ min. climb of 380' per NM to 3100, or 2000-3 for climb in visual conditions. **Rwy 18**, std. w/ min. climb of 380' per NM to 3800, or 2000-3 for climb in visual conditions. **Rwy 25**, std. w/ min. climb of 380' per NM to 3100, or 2000-3 for climb in visual conditions. **Rwy 36**, std. w/ min. climb of 350' per NM to 1800, or 2000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 075° to 1900 before proceeding on course. **Rwy 18**, climb heading 184° to 3100 before proceeding on course. **Rwy 25**, climb heading 255° to 3100 before proceeding on course. **Rwy 36**, climb heading 004° to 1800 before proceeding on course. **Rwys 7, 18, 25, 36**, - for climb in visual conditions: cross Lebanon Muni airport at or above 2500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 7**, numerous trees beginning 104' from DER, 255' right of centerline up to 112' AGL/752' MSL. Pole 505' from DER, 391' right of centerline, 72' AGL/672' MSL. Bush 426' from DER, 259' right of centerline, 9' AGL/589' MSL. Multiple trees beginning 13' from DER, 209' left of centerline, up to 100' AGL/1100' MSL. **Rwy 18**, numerous trees, and obstruction light poles beginning 288' from DER, 107' right of centerline, up to 100' AGL/784' MSL. Numerous trees and obstruction light poles beginning 433' from DER, 206' left of centerline, up to 82' AGL/962' MSL. Bush 216' from DER, 471' right of centerline, 16' AGL/619' MSL. **Rwy 25**, multiple trees beginning 340' from DER, 400' left of centerline, up to 91' AGL/871' MSL. Tree 382' from departure end of runway, 502' right of centerline, 91' AGL/581' MSL. **Rwy 36**, multiple trees beginning 243' from DER, 355' left of centerline, up to 81' AGL/581' MSL. Pole 155' from DER, 505' left of centerline, 30' AGL/590' MSL. Tree 357' from DER, 511' right of centerline, 83' AGL/583' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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LINCOLN, ME

LINCOLN RGNL (LRG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 3 10210 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 700-1½ with a minimum climb of 389' per NM to 1100 or 1100-2½ for climb in visual conditions. **Rwy 35**, 300-1 or std. w/ min. climb of 453' per NM to 500.

DEPARTURE PROCEDURE: **Rwy 17**, climb heading 181° to 1100 before proceeding on course. For climb in visual conditions, cross Lincoln Rgnl airport at or above 1200 MSL before proceeding on course. **Rwy 35**, climb heading 346° to 700 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 17**, trees beginning 123' from DER, 296' left of centerline, up to 80' AGL/299' MSL. Trees beginning 447' from DER, 126' right of centerline, up to 80' AGL/289' MSL. Towers beginning 7448' from DER, 2310' left of centerline, up to 191' AGL/869' MSL. **Rwy 35'** trees beginning 4' from DER, 284' left of centerline, up to 80' AGL/359' MSL. Trees beginning 252' from DER, 196' right of centerline, up to 80' AGL/369' MSL.

LYNDONVILLE, VT

CALEDONIA COUNTY (CDA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 6 15316 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 500-2 w min. climb of 255' per NM to 3600, or 2600-3 for climb in visual conditions. **Rwy 20**, std. w/min. climb of 270' per NM to 2100, or 2600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2**, climb heading 024° to 3500 before proceeding on course or for climb in visual conditions, cross Caledonia County airport at or above 3600. When executing the VCOA, notify ATC prior to departure. **Rwy 20**, climb heading 204° to 3300 before proceeding on course or for climb in visual conditions to cross Caledonia County airport at or above 3600. When executing the VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, trees beginning 1068' from DER, 721' left of centerline, up to 80' AGL/1359' MSL. Terrain beginning 1327' from DER, 29' left of centerline, 1319' MSL. Trees beginning 2510' from DER, 568' left of centerline, up to 80' AGL/1359' MSL. Terrain beginning 2529' from DER, 74' left of centerline, 1339' MSL. Trees beginning 2919' from DER, 554' left of centerline, up to 80' AGL/1395' MSL. Terrain beginning 2989' from DER, 51' right of centerline, 1322' MSL. Trees beginning 4533' from DER, 1636' left of centerline, up to 80' AGL/1419' MSL. Terrain beginning 1.1 NM from DER, 61' left of centerline, 1446' MSL. Trees beginning 1.1 NM from DER, 276' left of centerline, up to 80' AGL/1477' MSL. Terrain beginning 1.5 NM from DER, 454' left of centerline, 1466' MSL. Trees beginning 1.6 NM from DER, 648' left of centerline, up to 80' AGL/1558' MSL. Rising terrain beginning 9.2 NM from DER. 1.9 NM left of centerline, up to 2773' MSL. **Rwy 20**, terrain beginning 115' from DER, left and right of centerline, up to 1198' MSL. Trees beginning 578' from DER, 107' right of centerline, up to 80' AGL/1257' MSL. Rising terrain beginning 3.3 NM from DER, 4397' right of centerline, up to 1659' MSL.

MACHIAS, ME

MACHIAS VALLEY (MVM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 2 13234 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, 400-2. **Rwy 36**, 400-3
TAKEOFF OBSTACLE NOTES: **Rwy 18**, multiple buildings, vehicles on road beginning 720' from DER, left and right of centerline, up to 25' AGL/124' MSL.

Terrain and trees beginning 65' from DER, left and right of centerline, up to 100' AGL/319' MSL. **Rwy 36**, multiple buildings, vehicles on road beginning 2453' from DER, left and right of centerline, up to 25' AGL/204' MSL. Trees beginning 105' from DER, left and right of centerline, up to 100' AGL/459' MSL. Tower 7922' from DER, 883' left of centerline, up 85' AGL/402' MSL.

MANCHESTER, NH

MANCHESTER (MHT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 10A 17229 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 300-1¼ or std. w/ min. climb of 277' per NM to 600. **Rwy 35**, 300-1½ or std. w/ min. climb of 253' per NM to 500.

DEPARTURE PROCEDURE: **Rwy 6**, climb heading 057° to 1000 before turning right. **Rwy 24**, climb heading 244° to 1000 before proceeding on course. **Rwy 35**, climb heading 352° to 1000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, pole and trees beginning 67' from DER, 162' left of centerline, up to 107' AGL/313' MSL. Fence and trees beginning 6' from DER, 90' right of centerline, up to 72' AGL/272' MSL. **Rwy 17**, buildings and trees beginning 1792' from DER, 54' left of centerline, up to 107' AGL/418' MSL. Transmission line tower, poles, buildings, and trees beginning 761' from DER, 4' right of centerline, up to 90' AGL/418' MSL. Pole 5563' from DER, 92' left of centerline, 57' AGL/457' MSL. **Rwy 24**, pole and trees beginning 221' from DER, 243' left of centerline, up to 119' AGL/293' MSL. Trees beginning 2556' from DER, 1041' right of centerline, up to 101' AGL/313' MSL. **Rwy 35**, pole and trees beginning 891' from DER, 527' left of centerline, up to 76' AGL/320' MSL. Poles and trees beginning 719' from DER, 558' right of centerline, up to 44' AGL/281' MSL. Trees 5933' from DER, 1950' left of centerline, up to 76' AGL/409' MSL. Trees 1 NM from DER, 1581' left of centerline, up to 60' AGL/414' MSL. Trees 1.2 NM from DER, 1946' left of centerline, up to 85' AGL/407' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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MANSFIELD, MA

MANSFIELD MUNI (1B9)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 13178 (FAA)

TAKEOFF MINIMUMS: **Rwys 4,22**, NA - VFR only.
TAKEOFF OBSTACLE NOTES: **Rwy 14**, trees beginning 89' from DER, 454' left of centerline, up to 65' AGL/182' MSL. Trees beginning 68' from DER, 143' left of centerline, up to 32' AGL/149' MSL. Trees beginning 82' from DER, 98' right of centerline, up to 31' AGL/148' MSL. Trees beginning 1067' from DER, 14' left of centerline, up to 67' AGL/184' MSL. Trees beginning 846' from DER, 8' right of centerline, up to 101' AGL/208' MSL. **Rwy 32**, sign 56' from DER, 164' right of centerline, 2' AGL/124' MSL. Trees beginning 52' from DER, 187' left of centerline, up to 54' AGL/173' MSL. Trees beginning 742' from DER, 17' left of centerline, up to 97' AGL/224' MSL. Trees beginning 638' from DER, 10' right of centerline, up to 103' AGL/230' MSL.

MARSHFIELD, MA

MARSHFIELD MUNI-GEORGE HARLOW FIELD (GHG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 14317 (FAA)

TAKEOFF MINIMUMS: **Rwy 24**, 200-1¼ or std. w/min. climb of 205' per NM to 300, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1100' prior to DER.

DEPARTURE PROCEDURE: **Rwy 24**, climb heading 242° to 500 before turning north.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, trees and bushes beginning 21' from DER, left and right of centerline, up to 51' AGL/51' MSL. Trees, poles and buildings beginning 1001' from DER, left and right of centerline, up to 59' AGL/68' MSL. Boat mast beginning 2734' from DER, left and right of centerline, up to 125' AGL/125' MSL. **Rwy 24**, trees beginning 15' from DER, 84' left of centerline, up to 74' AGL/74' MSL. Tree 474' from DER, 624' right of centerline, up to 71' AGL/77' MSL. Trees beginning 1371' from DER, left and right of centerline, up to 88' AGL/92' MSL. Trees beginning 4463' from DER, 1298' left of centerline, up to 88' AGL/153' MSL. Tree 6031' from DER, 1306' left of centerline, up to 89' AGL/158' MSL.

MERIDEN, CT

MERIDEN MARKHAM MUNI (MMK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 07046 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, 500-3 or std. w/ min. climb of 235' per NM to 1100. **Rwy 36**, std. w/ min. climb of 420' per NM to 1600, or 1500-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 18**, climb heading 176° to 1100 before proceeding on course. **Rwy 36**, climbing left turn heading 320° to 1600 before proceeding on course, or for climb in visual conditions, cross Meriden Markham Municipal at or above 1500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 18**, 200' AAO 1.9 NM from DER, 3441' left of centerline, 200' AGL/417' MSL. 200' AAO 1.9 NM from DER, 3563' left of centerline, 200' AGL/417' MSL. Terrain 50' from DER, 440' right of centerline, 109' MSL. 200' AAO 1.9 NM from DER, 3346' left of centerline, 200' AGL/410' MSL. Terrain 122' from DER, 223' right of centerline, 105' MSL. 200' AAO 2.5 NM from DER, 1984' left of centerline, 200' AGL/483' MSL. 200' AAO 2.5 NM from DER, 1889' left of centerline, 200' AGL/489' MSL. Multiple power lines beginning 500' from DER, 216' right of centerline, up to 52' AGL/172' MSL. Multiple power lines beginning 781' from DER, 192' left of centerline, up to 52' AGL/150' MSL. **Rwy 36**, multiple towers 3 NM from DER, 2284' right of centerline, up to 1117' AGL/1220' MSL. Multiple terrain/AAO 2.5 NM from DER, 3748' right of centerline, up to 200' AGL/903' MSL.

MILLINOCKET, ME

MILLINOCKET MUNI (MLT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10042 (FAA)

TAKEOFF MINIMUMS: **Rwy 29**, 400-3 or std. w/ min. climb of 535' per NM to 1000.

Rwy 34, 400-2½ or std. w/ min. climb of 351' per NM to 900. DEPARTURE PROCEDURE: **Rwy 11**, climb via heading 107° and MLT R-330 to MLT VOR/DME thence...**Rwy 16**, climb via heading 156° and MLT R-309 to MLT VOR/DME thence...**Rwy 29**, climb via heading 287° to 1000 then climbing left turn via heading 152° and MLT R-290 to MLT VOR/DME thence...**Rwy 34**, climbing right turn via heading 156° and MLT R-344 to MLT VOR/DME thence...
...continue climb in MLT VOR/DME holding pattern (Southeast, Right Turns, 319° inbound) to cross MLT VOR/DME at or above 3000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 11**, bushes beginning 82' from DER, 25' left of centerline, up to 16' AGL/406' MSL. Trees beginning 49' from DER, 258' left of centerline, up to 100' AGL/489' MSL. Trees beginning 52' from DER, 247' right of centerline, up to 100' AGL/489' MSL. Trees beginning 1685' from DER, left and right of centerline, up to 100' AGL/519' MSL. **Rwy 16**, vehicle 311' from DER, left and right of centerline, 15' AGL/393' MSL. Trees beginning 84' from DER, 272' left of centerline, up to 64' AGL/444' MSL. Trees beginning 20' from DER, 247' right of centerline, up to 66' AGL/436' MSL. Trees beginning 791' from DER, left and right of centerline, up to 100' AGL/489' MSL. **Rwy 29**, antenna, towers, power lines, and stacks beginning 294' from DER, 250' left of centerline, up to 302' AGL/782' MSL. Obstacle light on localizer, antenna, and power lines beginning 301' from DER, 1' right of centerline, up to 114' AGL/584' MSL. Trees beginning 300' from DER, 395' left of centerline, up to 62' AGL/452' MSL. Trees beginning 705' from DER, 237' right of centerline, up to 78' AGL/678' MSL. **Rwy 34**, trees beginning 28' from DER, 249' right of centerline, up to 113' AGL/729' MSL. Trees beginning 261' from DER, 317' left of centerline, up to 67' AGL/457' MSL. Tower 11162' from DER, 470' right of centerline, 310' AGL/708' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

MONTAGUE, MA**TURNERS FALLS (0B5)**

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 97002 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, 1200-1. **Rwy 34**,
1300-1 or std. with a min. climb rate of 370' per NM to
1900.

MORRISVILLE, VT**MORRISVILLE-STOWE STATE (MVL)**

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 13066 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, std. w/min. climb of 358'
per NM to 4300 or 3500-3 for climb in visual
conditions. **Rwy 19**, 900-3 w/min. climb of 500' per NM
to 5000 or 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climb heading
029° to 4300 before proceeding on course. For climb in
visual conditions: cross Morrisville-Stowe State airport
at or above 4100' MSL before proceeding on course.
When executing VCOA, notify ATC prior to departure.
Rwy 19, climbing right turn heading 040° to 5000
before proceeding on course. For climb in visual
conditions: cross Morrisville-Stowe State airport at or
above 4100' MSL before proceeding on course. When
executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, multiple trees
beginning 79' from DER, 40' right of centerline, up to
38' AGL/746' MSL. Numerous trees beginning 1331'
from DER, 160' right of centerline, up to 74' AGL/812'
MSL. Multiple buildings, trees, pole, and silo beginning
413' from DER, 595' left of centerline, up to 91'
AGL/819' MSL. Numerous trees beginning 1829' from
DER, 257' left of centerline, up to 96' AGL/824' MSL.
Rwy 19, numerous trees beginning 11' from DER,
364' right of centerline, up to 80' AGL/794' MSL.
Multiple buildings beginning 210' from DER, 469' right
of centerline, up to 84' AGL/792' MSL. Numerous trees
and buildings beginning 677' from DER, 19' right of
centerline, up to 89' AGL/817' MSL. Numerous trees
and poles beginning 1309' from DER, 73' right of
centerline, up to 98' AGL/846' MSL. Numerous trees
beginning 5890' from DER, 1940' right of centerline, up
to 113' AGL/900' MSL. Multiple trees 187' from DER,
144' left of centerline, up to 54' AGL/762' MSL.
Numerous trees, poles, and building beginning 1218'
from DER, 5' left of centerline, up to 102' AGL/850'
MSL. Numerous trees beginning 1.5 NM from DER,
1979' left of centerline, up to 95' AGL/1175' MSL.

NANTUCKET, MA**NANTUCKET MEMORIAL (ACK)**

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 98281 (FAA)

TAKEOFF MINIMUMS: **Rwy 12**, 700-1 or std. with a min.
climb of 330' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 6, 12, 15, 24, 30, 33**,
climb runway heading to 800 before proceeding on
course.

TAKEOFF OBSTACLE NOTES: **Rwy 33**, 70' AGL ant. on
building 954' from DER, 585' right of centerline.

NASHUA, NH**BOIRE FIELD (ASH)**

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 13178 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb heading 319°
to 900 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 14**, trees beginning
47' from DER, left and right of centerline, up to 80'
AGL/262' MSL. Pole 707' from DER, 673' right of
centerline, up to 37' AGL/221' MSL. Poles beginning 853'
from DER, 170' left of centerline, up to 28' AGL/217' MSL.
Pole 989' from DER, 560' right of centerline, up to 53'
AGL/240' MSL. Trees beginning 1030' from DER, 62'
right of centerline, up to 80' AGL/270' MSL. Trees
beginning 1057' from DER, 6' left of centerline, up to 112'
AGL/283' MSL. Pole 1465' from DER, 656' right of
centerline, up to 68' AGL/253' MSL. Trees beginning
2253' from DER, 143' left of centerline, up to 82'
AGL/287' MSL. Trees beginning 2405' from DER, 205'
right of centerline, up to 113' AGL/289' MSL. **Rwy 32**,
trees beginning 20' from DER, 99' right of centerline, up
to 96' AGL/295' MSL. Trees beginning 882' from DER, on
centerline, up to 80' AGL/259' MSL. Trees beginning
2333' from DER, 107' left of centerline, up to 97'
AGL/300' MSL. Tree 3562' from DER, 1324' right of
centerline, up to 80' AGL/312' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

NEW BEDFORD, MA

NEW BEDFORD RGNL (EWB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 8 15232 (FAA)

TAKEOFF MINIMUMS: **Rwy 14**, 300-1½ or std. w/min. climb of 280' per NM to 400'. **Rwy 32**, 300-2 or std. w/min. climb of 240' per NM to 400 or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

DEPARTURE PROCEDURE: **Rwy 14**, climb on heading 144° to 700 before turning right.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, poles 37' from DER, 1' left of centerline, up to 13' AGL/87' MSL. Vehicle on roadway 198' from DER, across centerline, up to 15' AGL/120' MSL. Trees beginning 227' from DER, 452' right of centerline, up to 9' AGL/111' MSL. Poles 257' from DER, along centerline, up to 14' AGL/91' MSL. Poles beginning 478' from DER, 22' right of centerline, up to 16' AGL/101' MSL. NAVAID/DME antenna 524' from DER, 237' left of centerline, 30' AGL/103' MSL. Bush beginning 646' from DER, 21' left of centerline, up to 108' MSL. Trees beginning 718' from DER, 382' left of centerline, up to 31' AGL/126' MSL. Vehicle on roadway beginning 728' from DER, across centerline, up to 15' AGL/118' MSL. Trees beginning 825' from DER, 436' right of centerline, up to 8' AGL/134' MSL. Trees beginning 1198' from DER, left and right of centerline, up to 82' AGL/185' MSL.

Rwy 14, trees beginning 21' from DER, 360' left of centerline, up to 27' AGL/138' MSL. Trees beginning 647' from DER, 272' right of centerline, up to 27' AGL/126' MSL. Buildings 699' from DER, 650' left of centerline, up to 29' AGL/113' MSL. Trees beginning 712' from DER, 391' left of centerline, up to 27' AGL/142' MSL. Trees beginning 741' from DER, 314' right of centerline, up to 100' AGL/142' MSL. Buildings beginning 806' from DER, 585' left of centerline, up to 25' AGL/120' MSL. Tower and antenna 832' from DER, 616' left of centerline, up to 26' AGL/114' MSL. Trees beginning 1017' from DER, left and right of centerline, up to 27' AGL/134' MSL. Poles 1122' from DER, 735' left of centerline, up to 29' AGL/126' MSL. Monuments beginning 1181' from DER, 528' left of centerline, 2' AGL/99' MSL. Poles beginning 1259' from DER, 524' left of centerline, up to 42' AGL/139' MSL. Vehicle on roadway 1272' from DER, 742' left of centerline, up to 15' AGL/113' MSL. Fence and wall 1282' from DER, 675' left of centerline, up to 5' AGL/103' MSL. Poles beginning 1398' from DER, 590' right of centerline, up to 37' AGL/104' MSL. Buildings and signs 1602' from DER, 497' left of centerline, up to 37' AGL/125' MSL. Trees beginning 1982' from DER, left and right of centerline, up to 27' AGL/158' MSL. Signs 2916' from DER, 827' right of centerline, up to 70' AGL/171' MSL. Trees beginning 2921' from DER, 37' right of centerline, up to 57' AGL/158' MSL. Trees beginning 2971' from DER, 86' left of centerline, up to 57' AGL/151' MSL. Buildings 3335' from DER, 1140' left of centerline, up to 84' AGL/160' MSL. Chimney and stack 4102' from DER, 1391' left of centerline, up to 129' AGL/213' MSL. Building 4900' from DER, 1374' right of centerline, 143' AGL/235' MSL. Building, steeple and spire 1.1 NM from DER, 422' left of centerline, up to 233' AGL/281' MSL.

NEW BEDFORD, MA (CON'T)

NEW BEDFORD RGNL (EWB) (CON'T)

Rwy 23, bush 5' from DER, 492' left of centerline, 65' MSL. NAVAIDs 7' from DER, along centerline, 1' AGL/65' MSL. Vehicle on roadway 29' from DER, 258' left of centerline, up to 15' AGL/90' MSL. Vehicle on roadway 99' from DER, 203' right of centerline, up to 15' AGL/89' MSL. Trees beginning 2171' from DER, 902' right of centerline, up to 54' AGL/146' MSL. Trees beginning 2543' from DER, 1166' left of centerline, up to 54' AGL/137' MSL. **Rwy 32**, bush beginning 39' from DER, 113' right of centerline, up to 95' MSL. Trees beginning 294' from DER, 115' right of centerline, up to 45' AGL/140' MSL. Poles beginning 540' from DER, 349' left of centerline, up to 30' AGL/107' MSL. Trees beginning 687' from DER, 10' left of centerline, up to 45' AGL/135' MSL. Buildings 930' from DER, 677' left of centerline, up to 38' AGL/109' MSL. Trees beginning 1035' from DER, left and right of centerline, up to 32' AGL/142' MSL. Trees beginning 2062' from DER, 513' left of centerline, up to 32' AGL/236' MSL. Trees beginning 1 NM from DER, left and right of centerline, up to 48' AGL/288' MSL. Trees beginning 1.3 NM from DER, 1802' right of centerline, up to 48' AGL/298' MSL. Trees beginning 1.4 NM from DER, 1679' left of centerline, up to 48' AGL/288' MSL.

NEW HAVEN, CT

TWEED-NEW HAVEN (HVN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 6 12012 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 300-1 w/min. climb of 340' per NM to 400. **Rwy 32**, 400-1½ or std. w/min. climb of 465' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 2**, climb heading 016° to 1900 before turning left. **Rwy 32**, climb heading 324° to 1500 before turning right.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, transmission line towers beginning 846' from DER, 356' left of centerline, up to 35' AGL/65' MSL. Building 124' from DER, 525' right of centerline, 53' AGL/64' MSL. Trees 1276' from DER, 817' left of centerline, up to 80' AGL/239' MSL. Trees 3755' from DER, 1494' left of centerline, up to 80' AGL/289' MSL. **Rwy 14**, terrain, buildings, and poles beginning 777' from DER, 5' left of centerline, up to 31' AGL/69' MSL. Terrain, vehicles on road, tower, buildings, and poles beginning 429' from DER, 143' right of centerline, up to 58' AGL/94' MSL. **Rwy 20**, pole 68' from DER, 498' right of centerline, 16' AGL/42' MSL. **Rwy 32**, pole and trees beginning 1121' from DER, 55' left of centerline, up to 80' AGL/149' MSL. Control tower, poles, and trees beginning 617' from DER, 139' right of centerline, up to 80' AGL/149' MSL. Trees 2777' from DER, 1143' right of centerline, up to 80' AGL/169' MSL. Stack 1.1 NM from DER, 2227' right of centerline, 394' AGL/404' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

NEWPORT, RI

NEWPORT STATE (UUU)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3A 07354 (FAA)

TAKEOFF MINIMUMS: **Rwy 4**, 300-2¼ or std. with a min. climb of 230' per NM to 600, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 2100' prior to DER. **Rwy 16**, 200-1 or std. w/ min. climb of 430' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 039° to 1200 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 4**, trees beginning 1.7 NM from DER, 916' right of centerline, up to 100' AGL/459' MSL. **Rwy 16**, tower 3782' from DER, 666' right of centerline, 100' AGL/285' MSL, tower 4203' from DER, 1100' right of centerline, 132' AGL/310' MSL. **Rwy 34**, terrain 102' from DER, 424' right of centerline, 159' MSL. Vehicle on road 726' from DER, 602' right of centerline.

NEWPORT, NH

PARLIN FIELD (2B3)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 16147 (FAA)

TAKEOFF MINIMUMS: **Rwy 12, 30**, NA-Environmental. **Rwy 18**, 600-2½ w/min. climb of 365' per NM to 3400 or 2300-3 for climb in visual conditions. **Rwy 36**, 700-1¼ w/min. climb of 487' per NM to 3700 or 2300-3 for climb in visual conditions. Procedure NA at night.

DEPARTURE PROCEDURE: **Rwy 18**, Climb heading 182° to 3200 before proceeding on course. **Rwy 36**, Climb heading 002° to 2100 before proceeding on course.

VCOA: Obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Parlin field at or above 2900 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 18**, row of trees beginning 7' from DER, from 131' left to 460' right of centerline, and continuing 2715' south along both banks of the river, up to 100' AGL/887' MSL. Trees beginning 8' from DER, 460' right of centerline, up to 100' AGL/907' MSL. Trees beginning 439' from DER, 594' right of centerline, up to 100' AGL/926' MSL. Buildings and trees beginning 2654' from DER, 677' left of centerline, up to 100' AGL/926' MSL. Buildings and trees beginning 3117' from DER, 983' left of centerline, up to 100' AGL/946' MSL. Trees beginning 3626' from DER, 502' right of centerline, up to 100' AGL/946' MSL. Trees beginning 3812' from DER, 640' right of centerline, up to 100' AGL/966' MSL. Buildings and trees beginning 4084' from DER, 1528' left of centerline, up to 100' AGL/966' MSL. Buildings, vehicles, and trees beginning 4085' from DER, 974' right of centerline, up to 100' AGL/985' MSL. Trees beginning 4273' from DER, 1161' right of centerline, up to 100' AGL/998' MSL. Trees beginning 4559' from DER, 1340' right of centerline, up to 100' AGL/1018' MSL. Buildings and trees beginning 4630' from DER, 1577' right of centerline, up to 100' AGL/1037' MSL. Buildings, trees beginning 4826' from DER, 1559' right of centerline, up to 100' AGL/1064' MSL. Buildings, vehicles, and trees beginning 5046' from DER, 1757' right of centerline, up to 100' AGL/1084' MSL.

NEWPORT, NH (CON'T)

PARLIN FIELD (2B3) (CON'T)

Rwy 18 (CON'T): Buildings, vehicles, and trees beginning 5503' from DER, 1946' right of centerline, up to 100' AGL/1103' MSL. Tower 1.0 NM from DER, 155' right of centerline, 206' AGL/990' MSL. Buildings, vehicles, and trees beginning 1.4 NM from DER, 2233' right of centerline, up to 100' AGL/1123' MSL. Trees beginning 1.4 NM from DER, 2374' left of centerline, up to 100' AGL/1103' MSL. Trees beginning 1.6 NM from DER, 2567' left of centerline, up to 100' AGL/1222' MSL. Trees beginning 1.7 NM from DER, 2804' left of centerline, up to 100' AGL/1281' MSL. Trees beginning 1.9 NM from DER, 2480' left of centerline, up to 100' AGL/1300' MSL. Trees beginning 2.0 NM from DER, 3003' left of centerline, up to 100' AGL/1359' MSL. **Rwy 36**, vehicles on road beginning from DER, from 130' left to 380' right of centerline, up to 15' AGL/802' MSL. Trees beginning 61' from DER, from 264' left to 393' right of centerline, up to 100' AGL/887' MSL. Trees beginning 67' from DER, 192' left of centerline, up to 100' AGL/907' MSL. Trees beginning 101' from DER, 408' right of centerline, up to 100' AGL/907' MSL. Trees beginning 112' from DER, 453' right of centerline, up to 100' AGL/926' MSL. Trees beginning 181' from DER, 330' right of centerline, up to 100' MSL/946' MSL. Trees beginning 1056' from DER, from 25' right to 854' left of centerline, up to 100' AGL/966' MSL. Trees beginning 1485' from DER, from 37' right to 937' left of centerline, up to 100' AGL/985' MSL. Trees beginning 1587' from DER, 381' left of centerline, up to 100' AGL/1005' MSL. Trees beginning 1634' from DER, 455' left of centerline, up to 100' AGL/1024' MSL. Trees beginning 1703' from DER, 429' left of centerline, up to 100' AGL/1044' MSL. Trees beginning 1796' from DER, 292' left of centerline, up to 100' AGL/1064' MSL. Trees beginning 1880' from DER, 352' left of centerline, up to 100' AGL/1084' MSL. Trees beginning 4213' from DER, from 313' left to 1324' right of centerline, up to 100' AGL/1005' MSL. Trees continuing from 5591' from DER, on rising hillside, 826' left of centerline, up to 100' AGL/1103' MSL. Trees continuing from 5936' from DER, on rising hillside, 913' left of centerline, up to 100' AGL/1123' MSL. Trees continuing from 1.0 NM from DER, on rising hillside, 992' left of centerline, up to 100' AGL/1162' MSL. Trees continuing from 1.1 NM from DER, on rising hillside, 1158' left of centerline, up to 100' AGL/1202' MSL. Trees continuing from 1.2 NM from DER, on rising hillside, 1335' left of centerline, up to 100' AGL/1241' MSL. Trees beginning 1.2 NM from DER, 2305' right of centerline, up to 100' AGL/1064' MSL. Trees continuing from 1.3 NM from DER, on rising hillside, 1486' left of centerline, up to 100' AGL/1340' MSL. Trees continuing from 1.4 NM from DER, on rising hillside, 2436' left of centerline, up to 100' AGL/1399' MSL. Trees 1.5 NM from DER, on hilltop, 2732' left of centerline, up to 100' AGL/1418' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

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NEWPORT, VT

NORTHEAST KINGDOM INTL (EFK)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 3A 17285 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, std. w/min. climb of 470' per NM to 2500 or 300-1 w/min. climb of 350' per NM to 3000 or 2300-3 for climb in visual conditions. **Rwy 23**, std. w/min. climb of 320' per NM to 3200 or 2300-3 for climb in visual conditions.

Rwy 36, std. w/min. climb of 320' per NM to 3300 or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climb heading 047° to 2200 before proceeding on course. **Rwy 18**, climb heading 177° to 3000 before proceeding on course. **Rwy 23**, climb heading 227° to 3000 before proceeding on course. **Rwy 36**, climb heading 357° to 3300 before proceeding on course.

VCOA: **Rwy 18, 23, 36**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Northeast Kingdom Intl airport at or above 3100 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, vehicles on access road beginning 188' from DER, 232' left of centerline, up to 10' AGL/954' MSL. Vehicles on road beginning 216' from DER, 530' right of centerline, up to 15' AGL/940' MSL. Poles beginning 249' from DER, 85' right of centerline, up to 43' AGL/952' MSL. **Rwy 18**, trees beginning at DER, left and right of centerline, up to 100' AGL/1103' MSL. Trees beginning 1.4 NM from DER, 2704' right of centerline, up to 100' AGL/1142' MSL. **Rwy 23**, trees beginning at DER, left and right of centerline, up to 100' AGL/1024' MSL. Rising terrain beginning 6.3 NM from DER, 1.8 NM right of centerline, up to 2381' MSL. **Rwy 36**, trees beginning 1897' from DER, 613' left of centerline, up to 100' AGL/1044' MSL. Trees beginning 2962' from DER, 377' right of centerline, up to 100' AGL/1044' MSL. Trees beginning 5850' from DER, 2049' left of centerline. Up to 100' AGL/1123' MSL. Ridgeline beginning 3.3 NM from DER, 3031' left of centerline, up to 1515' MSL.

NORRIDGEWOCK, ME

CENTRAL MAINE AIRPORT OF

NORRIDGEWOCK (OWK)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4 14149 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, 300-1½ or std. w/min. climb of 210' per NM to 500, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER. **Rwy 15**, std. w/min. climb of 235' per NM to 1100, or 1400-2½ for climb in visual conditions. **Rwy 21**, std. w/min. climb of 285' per NM to 1000, or 1400-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 028° to 1200 before turning left. **Rwy 15**, climb heading 148° to 1100 before proceeding on course or for climb in visual conditions: cross Central Maine Airport of Norridgewock at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 21**, climb heading 208° to 1000 before proceeding on course or for climb in visual conditions: cross Central Maine Airport of Norridgewock at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 33**, climbing right turn to 1900 direct AUG VOR/DME before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, trees beginning 3' from DER, 196' right of centerline, up to 100' AGL/439' MSL. Trees beginning 139' from DER, 487' left of centerline, up to 100' AGL/367' MSL. **Rwy 15**, trees beginning 248' from DER, 559' right of centerline, up to 100' AGL/349' MSL. Trees beginning 477' from DER, 295' left of centerline, up to 100' AGL/369' MSL. **Rwy 21**, trees beginning 15' from DER, 108' right of centerline, up to 100' AGL/399' MSL. Trees beginning 523' from DER, 608' left of centerline, up to 100' AGL/409' MSL. **Rwy 33**, trees beginning 4' from DER, 21' left of centerline, up to 100' AGL/359' MSL. Trees beginning 264' from DER, 4' right of centerline, up to 100' AGL/379' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

NORTH ADAMS, MA

HARRIMAN-AND-WEST (AQW)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 15316 (FAA)

TAKEOFF MINIMUMS: **Rwy 11**, 1100-2¼ w/min. climb of 558' per NM to 4200 or std. w/min. climb of 830' per NM to 3600 or 3500-3 for climb in visual conditions.

Rwy 29, 900-3 w/min. climb of 660' per NM to 3800 or std. w/min. climb of 843' per NM to 3500 or 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climb heading 111° to 4000 before proceeding on course. **Rwy 29**, climb heading 291° to 3800 before proceeding on course.

VCOA: **Rwy 11, 29**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Harriman-and-West airport at or above 4000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 11**, building 3' from DER, 420' left of centerline, 15' AGL/664' MSL. Pole and trees beginning 33' from DER, 360' right of centerline, up to 22' AGL/692' MSL. Vehicles on road 49' from DER, crossing centerline, 15' AGL/661' MSL. Multiple trees and building continuing from 149' from DER, left and right of centerline, up to 85' AGL/730' MSL. Multiple trees, poles and buildings continuing from 198' from DER, left and right of centerline, up to 57' AGL/746' MSL. Trees and poles continuing from 546' from DER, right and left of centerline, up to 71' AGL/760' MSL. Multiple trees and buildings continuing from 607' from DER, right and left of centerline, up to 79' AGL/768' MSL. Multiple trees and poles continuing from 794' from DER, from 708' right and across centerline, up to 92' AGL/781' MSL. Multiple trees and building on rising hillside continuing from 1459' from DER from 843' right and across centerline, up to 64' AGL/793' MSL. Trees on rising hillside continuing from 1625' from DER, from 880' right and across centerline, up to 79' AGL/827' MSL. Trees on rising hillside continuing from 2010' from DER, from 1009' right and across centerline, up to 107' AGL/856' MSL. Trees on rising hillside continuing from 2510' from DER, from 1169' right and crossing centerline, up to 93' AGL/882' MSL. Trees on rising hillside continuing from 3537' from DER, 33' right of centerline, up to 80' AGL/907' MSL. Trees on rising hillside continuing from 4322' from DER, 205' right of centerline, up to 69' AGL/955' MSL. Trees on rising hillside continuing from 4809' from DER, 603' right of centerline, up to 65' AGL/971' MSL. Trees on rising hillside continuing from 4842' from DER, 292' right of centerline, up to 89' AGL/995' MSL. Trees on rising hillside continuing from 4975' from DER, 330' right of centerline, up to 74' AGL/1000' MSL. Trees on rising hillside continuing from 5081' from DER, 408' right of centerline, up to 84' AGL/1009' MSL. Trees on rising hillside continuing from 5178' from DER, 146' right of centerline, up to 79' AGL/1024' MSL. Trees on rising hillside continuing from 5315' from DER, 114' right of centerline, up to 100' AGL/1065' MSL. Trees on rising hillside continuing from 5443' from DER, 270' right of centerline, up to 108' AGL/1112' MSL. Trees on rising hillside continuing from 5610' from DER, 10' right of centerline, up to 105' AGL/1129' MSL. Trees on rising hillside continuing from 5767' from DER, crossing centerline, up to 80' AGL/1163' MSL. Trees on rising hillside continuing from 5889' from DER, crossing centerline, up to 105' AGL/1188' MSL. Trees near hilltop continuing from 1 NM from DER, crossing centerline, up to 90' AGL/1232' MSL.

NORTH ADAMS, MA (CON'T)

HARRIMAN-AND-WEST (AQW) (CON'T)

Rwy 11 (CON'T), Trees near hilltop continuing from 1.1 NM from DER, crossing centerline, up to 86' AGL/1287' MSL. Trees on rising hillside and along hilltop continuing from 1.2 NM from DER, 3' right of centerline, up to 65' AGL/1306' MSL. Trees on rising hillside continuing from 1.2 NM from DER, 7' left of centerline, up to 91' AGL/1294' MSL. Trees on hilltop 1.9 NM from DER, 3504' right of centerline, up to 111' AGL/1705' MSL. Transmission tower and transmission line 2 NM from DER, crossing centerline, 50' AGL/1527' MSL. **Rwy 29**, pole 9' from DER, 49' right of centerline, 4' AGL/653' MSL. Trees beginning 60' from DER, 314' left of centerline, up to 65' AGL/707' MSL. Trees continuing from 143' from DER, left and right of centerline, up to 75' AGL/782' MSL. Trees continuing from 427' from DER, left and right of centerline, up to 86' AGL/765' MSL. Multiple buildings 827' from DER, 501' left of centerline, up to 28' AGL/717' MSL. Trees and buildings continuing from 1061' from DER, 26' left of centerline, up to 94' AGL/782' MSL. Trees and buildings continuing from 1487' from DER, 56' right of centerline, up to 76' AGL/726' MSL. Trees and buildings continuing from 1667' from DER, left and right of centerline, up to 60' AGL/828' MSL. Trees continuing from 1975' from DER, 18' left of centerline, up to 77' AGL/865' MSL. Multiple trees, buildings, and vehicles, continuing from 2172' from DER, up to 99' AGL/886' MSL. Trees on rising hillside continuing from 1.1 NM from DER, left and right of centerline, up to 80' AGL/966' MSL. Trees on rising hillside continuing from 1.4 NM from DER, left and right of centerline, up to 93' AGL/1038' MSL. Trees on rising hillside continuing from 1.5 NM from DER, left and right of centerline, up to 99' AGL/1043' MSL. Trees on rising hillside continuing from 1.6 NM from DER, left and right of centerline, up to 112' AGL/1116' MSL. Trees on rising hillside continuing from 1.6 NM from DER, left and right of centerline, up to 74' AGL/1197' MSL. Trees on hilltop continuing from 1.7 NM from DER, left and right of centerline, up to 119' AGL/1215' MSL. Trees on rising hillside continuing from 2.3 NM from DER, left and right of centerline, up to 75' AGL/1295' MSL. Trees on rising hillside to hilltop continuing from 2.4 NM from DER, left and right of centerline, up to 51' AGL/1479' MSL.

NORTH KINGSTOWN, RI

QUONSET STATE (OQU)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 13010 (FAA)

TAKEOFF MINIMUMS: **Rwy 5**, 300-1 or std w/min. climb of 402' per NM to 300. **Rwy 16**, 300-1 or std w/min. climb of 281' per NM to 300.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, rising terrain 63' from DER, left to right of centerline, up to 33' MSL. Ships beginning at DER, 220' right of centerline, up to 185' MSL. **Rwy 16**, rising terrain 22' from DER, left to right of centerline, up to 27' MSL. Ships beginning 71' from DER, 543' left of centerline, up to 185' MSL. **Rwy 23**, rising terrain 101' from DER, left to right of centerline, up to 33' MSL. Vehicles beginning 393' from DER, 4' left of centerline, 15' AGL/24' MSL. Trains beginning 398' from DER, 138' left of centerline, 23' AGL/31' MSL. Crane 1826' from DER, 924' right of centerline, 106' AGL/112' MSL. Ships beginning 415' from DER, 521' left of centerline, up to 185' MSL. **Rwy 34**, trees beginning 1073' from DER, 697' left of centerline, up to 80' AGL/112' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)

18032

NORTHAMPTON, MA**NORTHAMPTON (7B2)**

**TAKEOFF MINIMUMS AND (OBSTACLE)
 DEPARTURE PROCEDURES**

AMDT 4 11013 (FAA)

TAKEOFF MINIMUMS: **Rwy 14**, 1500-2½ for climb in visual conditions. **Rwy 32**, std. w/ min. climb of 286' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 14**, for climb in visual conditions: cross Northampton Airport at or above 1500 before proceeding on course. **Rwy 32**, climb heading 323° to 2000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 14**, vehicle on road 5' from DER, 178' right of centerline, up to 17' AGL/136' MSL. Vehicle on road 35' from DER, 143' left of centerline, up to 17' AGL/136' MSL. Trees beginning 984' from DER, 476' left of centerline, up to 100' AGL/219' MSL. Numerous trees beginning 1.2 NM from DER, 1556' left and right of centerline, up sloping on Holyoke range, up to 100' AGL/909' MSL. **Rwy 32**, vehicle on road 256' from DER, up to 17' AGL/136' MSL. Building 176' from DER, 169' right of centerline 25' AGL/144' MSL. Trees beginning 85' from DER, 462' left of centerline, up to 100' AGL/219' MSL. Vehicle on road 1638' from DER, 116' left of centerline, 17' AGL/176' MSL.

NORWOOD, MA**NORWOOD MEMORIAL (OWD)**

**TAKEOFF MINIMUMS AND (OBSTACLE)
 DEPARTURE PROCEDURES**

AMDT 7 14149 (FAA)

TAKEOFF MINIMUMS: **Rwy 10**, 400-1½ or std. w/ min. climb of 310' per NM to 400. **Rwy 17**, 300-2¼ or std. w/ min. climb of 220' per NM to 500, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER. **Rwy 28**, 400-2 or std. w/min. climb of 385' per NM to 500. **Rwy 35**, 300-1¼ or std. w/min. climb of 230' per NM to 1900, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 104° to 1100 before turning north. **Rwy 28**, climb heading 284° to 700 before turning north. **Rwy 35**, turn left heading 315° to 1900 before turning east.

TAKEOFF OBSTACLE NOTES: **Rwy 10**, trees 225' from DER, 341' left of centerline, 53' AGL/97' MSL. Trees 1641' from DER, 33' left of centerline, 73' AGL/118' MSL. Trees 75' from DER, 302' right of centerline, 15' AGL/63' MSL. Trees 4561' from DER, 1005' right of centerline, 87' AGL/215' MSL. Trees 4244' from DER, 1228' right of centerline, 98' AGL/211' MSL. Trees 1.2 NM from DER, 238' right of centerline, 89' AGL/242' MSL. **Rwy 17**, trees 42' from DER, 507' left of centerline, 33' AGL/76' MSL. Trees 2777' from DER, 273' right of centerline, 78' AGL/126' MSL. Trees 2742' from DER, 291' left of centerline, 73' AGL/121' MSL. Trees 2192' from DER, 444' left of centerline, 64' AGL/106' MSL. Trees 1.8 NM from DER, 3332' right of centerline, 100' AGL/350' MSL. Trees 2979' from DER, 667' right of centerline, 76' AGL/124' MSL. Trees 2111' from DER, 616' right of centerline, 68' AGL/114' MSL. **Rwy 28**, trees 932' from DER, 463' left of centerline, 74' AGL/131' MSL. Trees 2352' from DER, 157' left of centerline, 75' AGL/172' MSL. Trees 2868' from DER, 41' left of centerline, 81' AGL/188' MSL. Stack 6004' from DER, 1246' left of centerline, 103' AGL/224' MSL. Stack 5559' from DER, 651' left of centerline, 117' AGL/234' MSL. Spire 1.6 NM from DER, 311' left of centerline, 98' AGL/335' MSL. Tree 610' from DER, 544' right of centerline, 71' AGL/119' MSL. Tower 4465' from DER, 238' right of centerline, 157' AGL/262' MSL. Spire 6044' from DER, 1320' right of centerline, 143' AGL/284' MSL. Tower 1.7 NM from DER, 723' right of centerline, 132' AGL/386' MSL. Trees 1.9' from DER, 722' right of centerline, 100' AGL/339' MSL. **Rwy 35**, trees 647' from DER, 625' left of centerline, 72' AGL/120' MSL. Trees 2791' from DER, 478' left of centerline, 75' AGL/124' MSL. Tree 3123' from DER, 598' left of centerline, 83' AGL/133' MSL. Pole 5856' from DER, 936' right of centerline, 155' AGL/216' MSL. Pole 5686' from DER, 769' right of centerline, 150' AGL/211' MSL. Trees 1557' from DER, 787' right of centerline, 80' AGL/125' MSL.

01 FEB 2018 to 01 MAR 2018

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)

18032

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

OLD TOWN, ME

DEWITT FIELD OLD TOWN MUNI (OLD)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 07270 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 4**, trees beginning 61' from DER, 337' right of centerline, up to 80' AGL/239' MSL. Trees beginning 281' from DER 363' left of centerline, up to 80' AGL/199' MSL. **Rwy 12**, trees beginning 338' from DER, 33' right of centerline, up to 80' AGL/259' MSL. **Rwy 22**, trees beginning 223' from DER, 296' left of centerline, up to 80' AGL/239' MSL. Trees beginning 514' from DER, 184' right of centerline, up to 80' AGL/209' MSL. **Rwy 30**, trees beginning 952' from DER, 55' left of centerline, up to 80' AGL/199' MSL.

ORANGE, MA

ORANGE MUNI (ORE)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 12152 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, std. w/min. climb of 325' per NM to 1800 or 1300-2½ for climb in visual conditions. **Rwy 14**, 400-1½ w/ min. climb of 270' per NM to 1800 or std. w/min. climb of 500' per NM to 1200 or 1300-2 ½ for climb in visual conditions. **Rwy 19**, 300-1 ¾ or std. w/min. climb of 240' per NM to 900. **Rwy 32**, 400-2 ¼ w/ min. climb of 265' per NM to 1700 or std. w/min. climb of 340' per NM to 1700 or 1300-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climb heading 016° to 1800 before proceeding on course. For climb in visual conditions: cross Orange Muni Airport at or above 1700 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 14**, climb heading 142° to 2000 before proceeding on course. For climb in visual conditions: cross Orange Muni Airport at or above 1700 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 19**, climb heading 196° to 1500 before proceeding on course. **Rwy 32**, climb heading 322° to 1700 before proceeding on course. For climb in visual conditions: cross Orange Muni Airport at or above 1700 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, pole and trees beginning 272' from DER, 6' left of centerline, up to 92' AGL/624' MSL. Terrain and trees beginning 5' from DER, 23' right of centerline, up to 100' AGL/632' MSL. **Rwy 14**, trees beginning 186' from DER, 15' left of centerline, up to 90' AGL/699' MSL. Buildings and trees beginning 48' from DER, 23' right of centerline, up to 94' AGL/703' MSL. Tower 5889' from DER, 1606' left of centerline, 88' AGL/926' MSL. Trees 1.1 NM from DER, 2138' left of centerline, up to 70' AGL/817' MSL. **Rwy 19**, trees beginning 164' from DER, 28' left of centerline, up to 94' AGL/667' MSL. Trees beginning 1130' from DER, 23' right of centerline, up to 96' AGL/705' MSL. Trees 1.1 NM from DER, 1931' right of centerline, up to 83' AGL/751' MSL. Trees 1.2 NM from DER, 2125' right of centerline, up to 112' AGL/781' MSL. Trees 1.4 NM from DER, 1927' right of centerline, up to 84' AGL/772' MSL. **Rwy 32**, trees beginning 14' from DER, 87' left of centerline, up to 91' AGL/680' MSL. Trees beginning 521' from DER, 13' right of centerline, up to 95' AGL/618' MSL. Trees 1.2 NM from DER, 2366' left of centerline, up to 94' AGL/841' MSL. Trees 1.7 NM from DER, 3315' right of centerline, up to 61' AGL/906' MSL.

OXFORD, CT

WATERBURY-OXFORD (OXC)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 5 06327 (FAA)

TAKEOFF MINIMUMS: **Rwy 36**, 300-1 or std. w/ a min. climb of 240' per NM to 1000, alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1900' prior to DER.

TAKEOFF OBSTACLE NOTES: **Rwy 18**, multiple trees and transmission towers beginning 510' from DER, 595' left of centerline, up to 100' AGL/777' MSL. Tree 2157' from DER, 154' from centerline, up to 100' AGL/735' MSL. **Rwy 36**, multiple trees and terrain beginning 464' from DER, 535' from centerline, up to 100' AGL/881' MSL. Tree 54' from DER, 450' left of centerline, up to 100' AGL/736' MSL. Tree 618' from DER, 369' left of centerline, up to 100' AGL/745' MSL.

OXFORD, ME

OXFORD COUNTY RGNL (81B)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 07186 (FAA)

TAKEOFF MINIMUMS: **Rwy 15**, 600-3 or 1800-2½ for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 475' per NM to 2000, or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climb heading 149° to 1300 before proceeding on course or for climb in visual conditions cross Oxford County Rgnl Airport at or above 2000 before proceeding on course. **Rwy 33**, climb heading 329° to 2000 before proceeding on course or for climb in visual conditions cross Oxford County Rgnl Airport at or above 2000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 15**, multiple trees beginning 3607' from DER, 572' left of centerline, up to 100' AGL/679' MSL. Multiple assumed obstacles beginning 1.7 NM from DER, 1478' left of centerline, up to 200' AGL/849' MSL. **Rwy 33**, multiple trees beginning 4121' from DER, 70' left of centerline, up to 100' AGL/499' MSL. Multiple trees beginning 5446' from DER, 239' right of centerline, up to 100' AGL/719' MSL. Multiple assumed obstacles beginning 1.6 NM from DER, 393' right of centerline, up to 200' AGL/1079' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

PAWTUCKET, RI

**NORTH CENTRAL STATE (SFZ)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 13066 (FAA)**

TAKEOFF OBSTACLE NOTES: **Rwy 5**, tree 103' from DER, 233' right of centerline, 34' AGL/434' MSL. Windssock abeam DER, 233' right of centerline, 16' AGL/426' MSL. Bush 40' from DER, 249' left of centerline, 28' AGL/428' MSL. Pole 25' from DER, 505' left of centerline, 78' AGL/439' MSL. Tree 346' from DER, 569' left of centerline, 87' AGL/438' MSL. **Rwy 15**, trees beginning 148' from DER, 32' left of centerline, up to 74' AGL/523' MSL. Trees beginning 119' from DER, 417' right of centerline, up to 93' AGL/552' MSL. Pole 200' from DER, 286' right of centerline, 74' AGL/504' MSL. Tree 2569' from DER, on centerline, 67' AGL/516' MSL. **Rwy 23**, trees beginning 144' from DER, 278' left of centerline, up to 90' AGL/480' MSL. Pole 171' from DER, 511' left of centerline, 85' AGL/475' MSL. Trees beginning 916' from DER, 602' right of centerline, 87' AGL/456' MSL. Pole 176' from DER, 507' right of centerline, 65' AGL/446' MSL. **Rwy 33**, trees beginning 58' from DER, 80' left of centerline, up to 45' AGL/554' MSL. Poles beginning 291' from DER, 207' left of centerline, up to 80' AGL/490' MSL. Trees beginning 23' from DER, 504' right of centerline, up to 75' AGL/494' MSL. Trees beginning 819' from DER, 415' right of centerline, up to 94' AGL/504' MSL. Poles beginning 827' from DER, 523' right of centerline, up to 44' AGL/464' MSL.

PLAINVILLE CT

**ROBERTSON FIELD (4B8)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 15120 (FAA)**

TAKEOFF MINIMUMS: **Rwy 2**, std. w/min. climb of 220' per NM to 2400, or 2200-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 2**, climb heading 019° to 2400 before turning right. **Rwy 20**, climb heading 199° to 1800 before proceeding on course.
VCOA: **Rwy 2**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Robertson field at or above 2300 before proceeding on course.
TAKEOFF OBSTACLE NOTES: **Rwy 2**, trees beginning 6' from DER, 143' left of centerline, up to 96' AGL/267' MSL. Poles and trees beginning 128' from DER, 143' right of centerline, up to 102' AGL/273' MSL. Trees beginning 2018' from DER, 128' right of centerline, up to 118' AGL/329' MSL. Trees beginning 2038' from DER, 786' left of centerline, up to 128' AGL/349' MSL. **Rwy 20**, trees, poles and buildings beginning 46' from DER, 23' left of centerline, up to 71' AGL/262' MSL. Trees beginning 356' from DER, 99' right of centerline, up to 61' AGL/252' MSL. Trees beginning 2020' from DER, 10' right of centerline, up to 71' AGL/262' MSL. Trees and poles beginning 2025' from DER, 247' left of centerline, up to 98' AGL/289' MSL.

PITTSFIELD, MA

**PITTSFIELD MUNI (PSF)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 99198 (FAA)**

TAKEOFF MINIMUMS: **Rwys 14, 32**, NA.
Rwy 8, 1100-2 or std. with a min. climb of 270' per NM to 2500. **Rwy 26**, 800-2 or std. with a min. climb of 360' per NM to 2100.
DEPARTURE PROCEDURE: **Rwy 8**, climb runway heading to 2000, then climbing right turn via CTR R-331 to 3000 before proceeding on course.
Rwy 26, climb runway heading to 2400 before proceeding on course.
TAKEOFF OBSTACLE NOTES: **Rwy 8**, 120' AGL tree 370' from DER, 533' right of centerline.

PITTSFIELD, ME

**PITTSFIELD MUNI (2B7)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2A 12040 (FAA)**

DEPARTURE PROCEDURE: **Rwy 36**, 300-1¼ or std w/ min. climb of 220' per NM to 500.
TAKEOFF OBSTACLE NOTES: **Rwy 18**, trees beginning 86' from DER, left and right of centerline, up to 80' AGL/259' MSL. **Rwy 36**, aircraft 49' from DER, 156' left of centerline, 17' AGL/216' MSL. Vehicle 139' from DER, 452' left of centerline, 15' AGL/214' MSL. Building, trees and poles beginning 63' from DER, 15' right of centerline, up to 77' AGL/357' MSL. Trees, poles and buildings beginning 106' from DER, 39' left of centerline, up to 82' AGL/312' MSL.

PLYMOUTH, MA

**PLYMOUTH MUNI (PYM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 98029 (FAA)**

TAKEOFF MINIMUMS: **Rwy 6**, 300-1 or std. with a min. climb of 390' per NM to 500. **Rwys 15, 300-1**. **Rwy 24**, 300-1 or std. with a min. climb of 220' per NM to 400. **Rwy 33**, 300-1 or std. with a min. climb of 210' per NM to 400.
DEPARTURE PROCEDURE: **Rwy 6**, climb runway heading to 900 before proceeding on course.

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01 FEB 2018 to 01 MAR 2018

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

18032

PORTLAND, ME

PORTLAND INTL JETPORT (PWM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 7 15344 (FAA)

TAKEOFF MINIMUMS: Rwy 11, 300-1¼ or std. w/min. climb of 272' per NM to 400. **Rwy 36**, 400-2¾ or std. w/min. climb of 235' per NM to 600.

TAKEOFF OBSTACLE NOTES: Rwy 11, tree 481' from DER, 563' right of centerline, 32' AGL/69' MSL. Tree 650' from DER, 551' left of centerline, 25' AGL/67' MSL. Trees beginning 5943' from DER, 1152' left of centerline, up to 189' AGL/230' MSL. Trees beginning 1 NM from DER, 2025' left of centerline, up to 186' AGL/228' MSL. Trees beginning 1 NM from DER, 1660' left of centerline, up to 209' AGL/251' MSL. **Rwy 18**, tree 107' from DER, 522' right of centerline, 33' AGL/77' MSL. Tree 178' from DER, 481' right of centerline, 38' AGL/82' MSL. Trees beginning 207' from DER, left and right of centerline, up to 57' AGL/78' MSL. Trees beginning 403' from DER, 503' right of centerline, up to 66' AGL/110' MSL. Trees beginning 1038' from DER, left and right of centerline, up to 65' AGL/109' MSL. Trees beginning 1257' from DER, left and right of centerline, up to 83' AGL/127' MSL. Trees beginning 1676' from DER, 217' right of centerline, up to 99' AGL/143' MSL. Trees beginning 4242' from DER, 1132' right of centerline, up to 124' AGL/168' MSL. **Rwy 29**, trees beginning 1301' from DER, 789' left of centerline, up to 47' AGL/122' MSL. Trees 2185' from DER, 830' left of centerline, up to 74' AGL/149' MSL. Trees beginning 2742' from DER, 811' right of centerline, up to 83' AGL/180' MSL. Trees beginning 3103' from DER, 1245' left of centerline, up to 114' AGL/189' MSL. Trees beginning 4218' from DER, 1382' left of centerline, up to 129' AGL/204' MSL. **Rwy 36**, building 11' from DER, 149' left of centerline, 2' AGL/46' MSL. Fence 23' from DER, 495' left of centerline, 21' AGL/68' MSL. Vehicles on road, beginning 196' from DER, 251' left of centerline, up to 17' AGL/56' MSL. Trees beginning 364' from DER, 87' left of centerline, up to 60' AGL/73' MSL. Trees beginning 21' from DER, 252' left of centerline, up to 56' AGL/101' MSL. Trees beginning 238' from DER, 515' left of centerline, up to 68' AGL/112' MSL. Trees beginning 1281' from DER, 832' right of centerline, up to 85' AGL/129' MSL. Trees beginning 1699' from DER, 450' right of centerline, up to 76' AGL/121' MSL. Trees beginning 2298 from DER, 848' left of centerline, up to 81' AGL/125' MSL. Tree 3545' from DER, 1437' left of centerline, 93' AGL/138' MSL.

PRESQUE ISLE, ME

NORTHERN MAINE RGNL ARPT AT
PRESQUE ISLE (PQI)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4A 11321 (FAA)

TAKEOFF MINIMUMS: Rwy 1, 300-1½ or std. w/min. climb of 456' per NM to 900. **Rwy 10**, 300-1¼ or std. w/min. climb of 262' per NM to 900. **Rwy 19**, 800-1 or std. with a min. climb of 230' per NM to 1600.

DEPARTURE PROCEDURE: Rwy 1, climb runway heading to 1200 before proceeding on course. **Rwy 10**, climb runway heading to 1700 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rwy 1, tree 2792' from DER, 856' right of centerline, up to 54' AGL/694' MSL. Tree 7304' from DER, 1849' right of centerline, up to 71' AGL/749' MSL. **Rwy 10**, tree 8710' from DER, 1660' right of centerline, up to 70' AGL/760' MSL. Tree 8861' from DER, 1668' right of centerline, up to 84' AGL/764' MSL.

PRINCETON, ME

PRINCETON MUNI (PNN)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 14149 (FAA)

TAKEOFF MINIMUMS: Rws 6,24, NA-Runway closed. **TAKEOFF OBSTACLE NOTES: Rwy 15**, bushes beginning 42' from DER, left and right of centerline, up to 18' AGL/247' MSL. Trees beginning 104' from DER, 227' left of centerline, up to 69' AGL/288' MSL. Trees beginning 154' from DER, 287' right of centerline, up to 79' AGL/298' MSL. Trees beginning 900' from DER, left and right of centerline, up to 100' AGL/298' MSL. **Rwy 33**, bushes beginning 33' from DER, 194' left of centerline, up to 16' AGL/275' MSL. Poles beginning 70' from DER, 495' left of centerline, up to 29' AGL/298' MSL. Trees beginning 248' from DER, left and right of centerline, up to 100' AGL/344' MSL.

01 FEB 2018 to 01 MAR 2018

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PORTSMOUTH, NH

PORTSMOUTH INTL AT PEASE (PSM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG-A 12096 (FAA)

DEPARTURE PROCEDURE: Rwy 16, climb heading 165° to 600 before turning left.

TAKEOFF OBSTACLE NOTES: Rwy 34, building 519' from DER, 439' right of centerline, 16' AGL/115' MSL. Trees beginning 2752' from DER, 1090' right of centerline, 90' AGL/170' MSL.


TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND


DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

PROVIDENCE, RI

THEODORE FRANCIS GREEN STATE
(PVD)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 13 17341 (FAA)

TAKEOFF MINIMUMS: **Rwy 34**, 300-2 w/ min. climb of 220' per NM to 1100 or std. w/ min. climb of 250' per NM to 500 or 1000-2½ for VCOA.

DEPARTURE PROCEDURE: **Rwy 23**, Climb on heading 227° to 700 before turning right.

VCOA: **Rwy 34**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Theodore Francis Green State Airport at or above 900 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, terrain 22' from DER, 437' left of centerline, 45' MSL. Lighting 675' from DER, 598' left of centerline, 68' MSL. Tree 794' from DER, 614' left of centerline, 74' MSL. Tree 880' from DER, 722' right of centerline, 78' MSL. Trees beginning 1215' from DER, 497' left of centerline, up to 107' MSL. Tree 1303' from DER, 849' right of centerline, 88' MSL. Trees beginning 1464' from DER, 733' right of centerline, up to 105' MSL. Trees beginning 2080' from DER, 454' left of centerline, up to 115' MSL. Trees beginning 2205' from DER, 783' right of centerline, up to 120' MSL. **Rwy 16**, terrain 32' from DER, 221' right of centerline, 34' MSL. Tree, building, terrain beginning 82' from DER, 136' right of centerline, up to 71' MSL. Tree 406' from DER, 579' left of centerline, 49' MSL. Trees beginning 1172' from DER, 792' left of centerline, up to 72' MSL. Trees beginning 1468' from DER, 407' left of centerline, up to 87' MSL. Tree 1570' from DER, 827' right of centerline, 85' MSL. Tree, pole beginning 1585' from DER, 490' left of centerline, up to 110' MSL. Tree 1659' from DER, 911' right of centerline, 92' MSL. Tree 2014' from DER, 907' left of centerline, 113' MSL. Trees beginning 2015' from DER, 759' left of centerline, up to 119' MSL. Pole, tree beginning 2534' from DER, 22' right of centerline, up to 118' MSL. Trees beginning 2563' from DER, 9' left of centerline, up to 90' AGL/123' MSL. Tree, pole beginning 2932' from DER, 28' right of centerline, up to 82' AGL/119' MSL. Tank, tree, pole beginning 2957' from DER, 2' right of centerline, up to 121' MSL. Tree, pole beginning 3146' from DER, 9' right of centerline, up to 87' AGL/123' MSL. Tower 3891' from DER, 1346' right of centerline, 94' AGL/131' MSL. **Rwy 23**, traverse way 206' from DER, 554' left of centerline, 61' MSL. Pole 331' from DER, 588' left of centerline, 86' MSL. Terrain 530' from DER, 613' right of centerline, 67' MSL. Tree, pole beginning 661' from DER, 485' right of centerline, up to 85' MSL. Tree 1004' from DER, 585' right of centerline, 101' MSL. Tree 1007' from DER, 723' left of centerline, 116' MSL. Trees beginning 1099' from DER, 494' right of centerline, up to 114' MSL. Trees beginning 1181' from DER, 720' left of centerline, up to 117' MSL. Trees beginning 1512' from DER, 591' left of centerline, up to 124' MSL. Tree 1583' from DER, 908' right of centerline, 119' MSL. Trees beginning 1697' from DER, 497' right of centerline, up to 123' MSL. Trees beginning 1917' from DER, 494' left of centerline, up to 125' MSL. Trees beginning 2066' from DER, 531' right of centerline, up to 87' AGL/137' MSL.

PROVIDENCE, RI (CON'T)

THEODORE FRANCIS GREEN STATE
(PVD) (CON'T)

Rwy 34, fence beginning 71' from DER, 313' left of centerline, up to 59' MSL. Building, sign, fence beginning 105' from DER, 288' right of centerline, up to 23' AGL/76' MSL. Fence 210' from DER, 209' left of centerline, 8' AGL/61' MSL. Tree, traverse way, pole beginning 296' from DER, 9' right of centerline, up to 110' MSL. Pole beginning 309' from DER, 22' left of centerline, up to 73' MSL. NAVAID 400' from DER, 189' left of centerline, 20' AGL/74' MSL. Tank, tree, pole, traverse way, building beginning 414' from DER, 8' right of centerline, up to 120' MSL. Building, pole beginning 437' from DER, 94' left of centerline, up to 77' MSL. Building 519' from DER, 495' left of centerline, 84' MSL. Building, traverse way beginning 546' from DER, 276' left of centerline, up to 27' AGL/85' MSL. Pole, lighting, building beginning 588' from DER, 53' left of centerline, up to 88' MSL. Tree, lighting, building, pole, electrical system beginning 643' from DER, 29' left of centerline, up to 39' AGL/94' MSL. Pole, building beginning 828' from DER, 162' left of centerline, up to 100' MSL. Pole, tree, building beginning 960' from DER, 146' left of centerline, up to 101' MSL. Pole, tree beginning 1091' from DER, 45' left of centerline, up to 103' MSL. Tree, pole beginning 1255' from DER, 188' left of centerline, up to 140' MSL. Tree, pole beginning 1407' from DER, 27' left of centerline, up to 145' MSL. Tree 1492' from DER, 793' right of centerline, 121' MSL. Trees beginning 1568' from DER, 172' right of centerline, up to 127' MSL. Trees beginning 2306' from DER, 421' right of centerline, up to 129' MSL. Trees beginning 2407' from DER, 154' right of centerline, up to 131' MSL. Tree 2524' from DER, 388' right of centerline, 132' MSL. Trees beginning 2589' from DER, 435' right of centerline, up to 133' MSL. Trees beginning 2953' from DER, 155' right of centerline, up to 138' MSL. Tree 3262' from DER, 1065' right of centerline, 93' AGL/143' MSL. Tower 1.4 NM from DER, 2915' right of centerline, 255' AGL/310' MSL. Tower 1.5 NM from DER, 2927' right of centerline, 282' AGL/334' MSL.

PROVINCETOWN, MA

PROVINCETOWN MUNI (PVC)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 07214 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 7**, trees beginning 133' from DER, 118' right of centerline up to 33' AGL/37' MSL. Trees beginning 165' from DER, 89' left of centerline up to 33' AGL/47' MSL. **Rwy 25**, bush 376' from DER, 575' right of centerline, 12' AGL/21' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

RANGELEY, ME

RANGELEY LAKE SEAPLANE BASE

(M57)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 14149 (FAA)

TAKEOFF MINIMUMS: **Rwy 6**, std. w/min. climb of 442' per NM to 4700 or 2600-2½ for climb in visual conditions. **Rwy 24**, std. w/min. climb of 300' per NM to 3900 or 2600-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 6**, climb heading 075° to 4700 before proceeding on course. For climb in visual conditions, cross Rangeley Lake airport at or above 4000 before proceeding on course, do not exceed 210 KIAS until leaving 4000. When executing VCOA, notify ATC prior to departure. **Rwy 24**, climb heading 255° to 3900 before proceeding on course. For climb in visual conditions, cross Rangeley Lake airport at or above 4000 before proceeding on course, do not exceed 210 KIAS until leaving 4000. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, trees and buildings beginning 1374' from DER, 446' right of centerline, up to 80' AGL/1620' MSL. Vehicles on roadway beginning 3200' from DER, 957' right of centerline, up to 15' AGL/1614' MSL. Boats on the water, up to 1553' MSL. **Rwy 24**, boats on the water, up to 1553' MSL.

STEVEN A BEAN MUNI (8B0)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 92093 (FAA)

TAKEOFF MINIMUMS: **Rwys 14, 32**, 600-2.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct RQM NDB to cross at or above 4000 before proceeding on course. **Rwy 32**, climbing left turn direct RQM NDB to cross at or above 4000 before proceeding on course.

ROCHESTER, NH

SKYHAVEN (DAW)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 6A 17005 (FAA)

DEPARTURE PROCEDURE: **Rwy 33**, climb heading 327° to 800, then climbing left turn heading 250° to intercept CON VOR/DME R-095 to 3000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 15**, trees beginning 450' from DER, 295' left of centerline, up to 110' AGL/400' MSL. Trees and poles beginning 111' from DER, 389' right of centerline, up to 57' AGL/367' MSL. **Rwy 33**, trees beginning 200' from DER, 154' right of centerline, up to 120' AGL/443' MSL. Trees beginning 106' from DER, 160' left of centerline, up to 103' AGL/406' MSL.

ROCKLAND, ME

KNOX COUNTY RGNL (RKD)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ADMT 4 04218 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, 300-1 or std. with a min. climb of 270' per NM to 2000, or 1100-2½ for climb in visual conditions. **Rwy 31**, std. with a min. climb of 300' per NM to 1300, or 1100-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 31**, for climb in visual conditions: cross Knox County Rgnl at or above 1000' MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, multiple trees, bushes, obstruction lights and towers beginning 108' from DER, 433' left of centerline, up to 146' AGL/206' MSL. **Rwy 13**, multiple trees, antennas, and light poles beginning 475' from DER, 548' left of centerline, up to 80' AGL/155' MSL. **Rwy 21**, multiple trees beginning 284' from DER, 255' left of centerline, up to 65' AGL/110' MSL. **Rwy 31**, multiple trees beginning 2025' from DER, 895' right of centerline, up to 74' AGL/115' MSL.

RUTLAND, VT

SOUTHERN VERMONT RGNL (RUT)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4A 13038 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, std. w/ min. climb of 439' per NM to 3000, or 3600-3 for climb in visual conditions. **Rwy 13**, NA-obstacles. **Rwy 19**, std. w/ min. climb of 470' per NM to 3300, or 3600-3 for climb in visual conditions. **Rwy 31**, std. w/ min. climb of 500' per NM to 4500, or 3600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climb on 013° course to DYO NDB, cross DYO NDB at or above 6000, if not at 6000, depart DYO NDB on bearing 325° to 6000 before proceeding on course. For climb in visual condition: cross Rutland-Southern Vermont RGNL airport at or above 4300 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 19**, climb heading 194° to 1400, then climbing right turn on 025° course to DYO NDB, cross DYO NDB at or above 6000, if not at 6000, depart DYO NDB on bearing 325° to 6000 before proceeding on course. For climb in visual condition: cross Rutland-Southern Vermont RGNL airport at or above 4300 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 31**, climb heading 329° to 1600, then climbing right turn on 025° course to DYO NDB, cross DYO NDB at or above 6000, if not at 6000, depart DYO NDB on bearing 325° to 6000 before proceeding on course. For climb in visual condition: cross Rutland-Southern Vermont RGNL airport at or above 4300 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, tree 79' from DER, 424' right of centerline, 80' AGL/805' MSL. **Rwy 19**, trees beginning 167' from DER, 305' right of centerline, up to 42' AGL/843' MSL. Trees beginning 393' from DER, 175' left of centerline, up to 100' AGL/967' MSL. **Rwy 31**, trees beginning 334' from DER, 94' left of centerline, up to 100' AGL/1319' MSL. Trees beginning 885' from DER, 201' right of centerline, up to 85' AGL/827' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

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SANFORD, ME

SANFORD SEACOAST RGNL (SFM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 3A 13066 (FAA)

TAKEOFF MINIMUMS: **Rwy 32**, 300-1¼ or std. w/min. climb of 375' per NM to 500.

DEPARTURE PROCEDURE: **Rwy 25**, climb heading 255° to 1100 before turning right. **Rwy 32**, climb heading 331° to 1600 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 7**, vehicles on road, antenna, light support structure, transmission tower, and trees beginning 62' from DER, 4' left of centerline, up to 69' AGL/309' MSL. Trees beginning 220' from DER, 19' right of centerline, up to 72' AGL/311' MSL. **Rwy 14**, trees beginning 149' from DER, 320' left of centerline, up to 55' AGL/294' MSL. Bushes and trees beginning 93' from DER, 260' right of centerline, up to 81' AGL/320' MSL. **Rwy 25**, trees beginning 118' from DER, 511' left of centerline, up to 60' AGL/379' MSL. Trees beginning 245' from DER, 476' right of centerline, up to 82' AGL/321' MSL. **Rwy 32**, trees beginning 763' from DER, 58' left of centerline, up to 77' AGL/396' MSL. Pole and trees beginning 332' from DER, 59' right of centerline, up to 92' AGL/381' MSL. Trees 3269' from DER, 1226' left of centerline, up to 72' AGL/401' MSL. Trees 4667' from DER, 1225' left of centerline, up to 82' AGL/431' MSL. Trees 5473' from DER, 1013' left of centerline, up to 67' AGL/416' MSL.

SOUTHBRIDGE, MA

SOUTHBRIDGE MUNI (3B0)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 3 10070 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 300-1½ or std. with a min. climb of 370' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 2**, climb heading 022° to 1800 before turning right.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, trees beginning 597' from DER, 58' left of centerline, up to 100' AGL/913' MSL. Tree 812' from DER, 197' right of centerline, 100' AGL/791' MSL. **Rwy 20**, trees beginning 70' from DER, 309' right of centerline, up to 78' AGL/740' MSL. Tree 1044' from DER, 395' left of centerline, 43' AGL/732' MSL.

SPRINGFIELD, VT

HARTNESS STATE (SPRINGFIELD) (VSF)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 3 11181 (FAA)

TAKEOFF MINIMUMS: **Rwy 5**, 800-3 w/min. climb of 649' per NM to 4500 or 2800-3 for climb in visual conditions. **Rwy 11**, 2800-3 for climb in visual conditions. **Rwy 29**, 800-2½ w/min. climb of 490' per NM to 4600 or std. w/min. climb of 630' per NM to 3400 or 2800-3 for climb in visual conditions. **Rwy 23**, std. w/min. climb of 400' per NM to 2800 or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, for climb in visual conditions cross Hartness State (Springfield) Airport at or above 3200 MSL before proceeding on course. **Rwy 11**, for climb in visual conditions cross Hartness State (Springfield) Airport at or above 3200 MSL before proceeding on course. **Rwy 23**, climb heading 230° to 2800 before proceeding on course, or for climb in visual conditions cross Hartness State (Springfield) Airport at or above 3200 MSL before proceeding on course. **Rwy 29**, climb heading 294° to 1200 before proceeding on course, or for climb in visual conditions cross Hartness State (Springfield) Airport at or above 3200 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, trees beginning 28' from DER, 187' right of centerline, up to 80' AGL/1344' MSL. Trees beginning 44' from DER, 499' left of centerline, up to 80' AGL/1291' MSL. **Rwy 23**, trees beginning 9' from DER, 339' right of centerline, up to 80' AGL/679' MSL. Trees beginning 10' from DER, 265' left of centerline, up to 80 AGL/639' MSL. **Rwy 29**, trees beginning 22' from DER, 470' left of centerline, up to 80' AGL/639' MSL. Vehicle on road 1409' from DER, 845' right of centerline, up to 17' AGL/616' MSL. Trees beginning 1614' from DER, 924' right of centerline, up to 80' AGL/699' MSL.

STOW, MA

MINUTE MAN AIRFIELD (6B6)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 3 10266 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, 400-2¾ or std. w/min. climb of 420' per NM to 700. **Rwy 12, 30**, NA-Environmental. **Rwy 21**, 400-2¾ or std. w/min. climb of 600' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 800 before proceeding on course. **Rwy 21**, climb heading 212° to 1600 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, trees beginning 9' from DER, 244' right of centerline, up to 80' AGL/434' MSL. Trees beginning 246' from DER, 168' left of centerline, up to 80' AGL/652' MSL. **Rwy 21**, trees beginning 11' from DER, 188' right of centerline, up to 80' AGL/385' MSL. Trees beginning 11' from DER, 198' left of centerline, up to 80' AGL/365' MSL. Trees beginning 529' from DER, left and right of centerline, up to 80' AGL/574' MSL. Tower 1.6 NM from DER, 2483' left of centerline, 118' AGL/511' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAUNTON, MA

TAUNTON MUNI-KING FIELD (TAN)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 08045 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22**, NA-Turf runway.
Rwy 12, 200-1½ or standard with minimum climb of
362' per NM to 300. **Rwy 30**, 200-1 or std. w/ min
climb of 291' per NM to 300.

TAKEOFF OBSTACLE NOTES: **Rwy 12**, Trees and
terrain beginning 61' from DER, 128' right of
centerline, up to 80' AGL/229' MSL. Trees and terrain
beginning 93' from DER, 204' left of centerline, up to
80' AGL/159' MSL. **Rwy 30**, Terrain beginning 147'
from DER, 284' right of centerline, 43' MSL. Trees and
terrain beginning 1044' from DER, 320' left of
centerline, up to 80' AGL/199' MSL.

VINEYARD HAVEN, MA

MARTHAS VINEYARD (MVY)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 11013 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 6**, trees beginning
585' from DER, 492' left of centerline, up to 100'
AGL/159' MSL. Trees beginning 707' from DER, 543'
right of centerline, up to 100' AGL/159' MSL. **Rwy 15**,
trees beginning 276' from DER, 156' left of centerline,
up to 100' AGL/159' MSL. Pole 411' from DER, 475'
right of centerline, 45' AGL/97' MSL. Trees beginning
430' from DER, 79' right of centerline, up to 100'
AGL/159' MSL. **Rwy 24**, trees beginning 594' from
DER, 201' left of centerline, up to 100' AGL/149' MSL.
Trees beginning 606' from DER, 442' right of
centerline, up to 100' AGL/159' MSL. Building 791'
from DER, 266' left of centerline, 25' AGL/75' MSL.
Rwy 33, trees beginning 36' from DER, 120' left of
centerline, up to 100' AGL/179' MSL. Trees beginning
67' from DER, 75' right of centerline, up to 100'
AGL/169' MSL.

WATERVILLE, ME

WATERVILLE ROBERT LAFLEUR (WVL)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 82133 (FAA)
TAKEOFF MINIMUMS: **Rwys 14, 32**, 300-1.

WEST DOVER, VT

DEERFIELD VALLEY RGNL (4V8)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 11181 (FAA)

TAKEOFF MINIMUMS: **Rwy 1**, 700-3 w/min. climb of
430' per NM to 4400. **Rwy 19**, std. w/min. climb of
300' per NM to 3900.

DEPARTURE PROCEDURE: **Rwy 1**, climb heading
005° to 4400 before turning west. **Rwy 19**, climb
heading 185° to 3900 before turning west.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, trees beginning
31' from DER, left and right of centerline, up to 90'
AGL/2640' MSL. Rising terrain beginning 1.2 NM from
DER, left and right of centerline, up to 4140' MSL.
Rwy 19, trees beginning 16' from DER, left and
right of centerline, up to 90' AGL/2078' MSL.

WESTERLY, RI

WESTERLY STATE (WST)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 11153 (FAA)

TAKEOFF MINIMUMS: **Rwy 25**, 300-1

TAKEOFF OBSTACLE NOTES: **Rwy 7**, trees beginning
36' from DER 57' right of centerline, up to 70' AGL/120'
MSL. Tree 789' from DER, 332' left of centerline, 41'
AGL/100' MSL.

Rwy 14, trees beginning 124' from DER, 31' right of
centerline, up to 61' AGL/173' MSL. Trees beginning 443'
from DER, 73' left of centerline, up to 54' AGL/163' MSL.
Bush 327' from DER, 3' left of centerline, 19' AGL/98'
MSL. **Rwy 25**, trees beginning 171' from DER, 119' right
of centerline, up to 62' AGL/121' MSL. Tank 2957' from
DER, 1038' left of centerline, 126' AGL/250' MSL.
Obstruction light on pole 50' from DER, 496' left of
centerline, 13' AGL/ 92' MSL. Trees beginning 439' from
DER, 93' left of centerline, up to 61' AGL/184' MSL.
Rwy 32, trees beginning 32' from DER, 46' right of
centerline, up to 84' AGL/173' MSL. Trees beginning 152'
from DER, 41' left of centerline, up to 85' AGL/174' MSL.

WESTFIELD/SPRINGFIELD, MA

WESTFIELD-BARNES RGNL (BAF)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4A 13122 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 300-1½ or std. w/ min.
climb of 204' per NM to 600, or alternatively, with
standard TAKEOFF minimums a normal 200'/NM climb
gradient, TAKEOFF must occur no later than 1200' prior
to DER. **Rwy 15**, 400-2 or std. w/ min. climb of 404' per
NM to 700. **Rwy 33**, std. w/ min. climb of 323' per NM to
2000, or 1500- 2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2**, climb heading 024°
to 1700 before proceeding on course. **Rwy 15**, climb
heading 154° to 1300 before proceeding on course. **Rwy**
20, climb heading 204° to 1500 before proceeding on
course. **Rwy 33**, climb heading 334° to 1900 before
proceeding on course, or for climb in visual conditions:
cross Westfield- Barnes Rgnl airport at or above 1600
MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, trees beginning
1186' from DER, 144' left of centerline, up to 100'
AGL/385' MSL. Trees beginning 1098' from
DER, 431' right of centerline, up to 100' AGL/465' MSL.
Rwy 15, trees beginning 245' from DER, 74' left of
centerline, up to 100' AGL/576' MSL. Bush 245' from
DER, 285' left of centerline, up to 20' AGL/265' MSL.
Obstruction light on tank 4773' from DER, 1315' left of
centerline, 190' AGL/440' MSL. Trees beginning 360'
from DER, 8' right of centerline, up to 100' AGL/508'
MSL. **Rwy 20**, trees beginning 18' from DER, 47' left of
centerline, up to 100' AGL/321' MSL. Trees beginning
541' from DER, 138' right of centerline, up to 100' AGL/
329' MSL. **Rwy 33**, trees and bush beginning 151' from
DER, 138' left of centerline, up to 100' AGL/383' MSL.
Obstruction light on radio tower and towers beginning
1.50 NM from DER, 2641' left of centerline, up to 305'
AGL/545' MSL. Trees beginning 311' from DER, 35' right
of centerline, up to 100' AGL/ 513' MSL.

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

WESTOVER ARB/METROPOLITAN (KCEF)

SPRINGFIELD/CHICOPEE, MA
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2, 17257

TAKE-OFF MINIMUMS: **Rwy 5**, std with min climb of 238 ft/NM to 1900. **Rwy 15**, std with min climb of 214 ft/NM to 1900. **Rwy 23**, std with min climb of 206 ft/NM to 1900. **Rwy 33**, std with min climb of 308 ft/NM to 1900.

TAKE-OFF OBSTACLES: **Rwy 15**, trees 1380' from DER, 40' left of cntrln, 60' AGL/279' MSL to 3723' from DER, 1366' left of cntrln, 32' AGL/322' MSL. Tree 1346' from DER, 5' right of cntrln, 60' AGL/279' MSL to 3433' from DER, 789' right of cntrln, 124' AGL/324' MSL. Pylon 6019' from DER, 2142' left of cntrln, 127' AGL/381' MSL. **Rwy 23**, taxiing aircraft 87' from DER, 466' right of cntrln, 124' AGL/267' MSL. Pylon 4574' from DER, 1570' left of cntrln, 110' AGL/319' MSL. Pylon 5346' from DER, 1730' right of cntrln, 122' AGL/320' MSL. Tree 1707' from DER, 208' left of cntrln, 43' AGL/289' MSL. Tree 1739' from DER, 199' right of cntrln, 45' AGL/291' MSL. Tree 1194' from DER, 729' left of cntrln, 51' AGL/266' MSL. Pylon 4131' from DER, 1936' left of cntrln, 137' AGL/352' MSL. **Rwy 33**, tree line 2847' from DER, 910' left of cntrln, 99' AGL/346' MSL. Tree line 2793' from DER, 215' left of cntrln, 99' AGL/348' MSL.

WHITEFIELD, NH

MOUNT WASHINGTON RGNL (HIE)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 5 11097 (FAA)

TAKEOFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 670' per NM to 5100 or 3100-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 540' per NM to 2300, or 400-2½ with minimum climb of 340' per NM to 2800, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct GMA NDB thence ...

or for climb in visual conditions, cross Mount Washington RGNL Airport at or above 4000' MSL, then on course 250° to GMA NDB, thence ...

Rwy 28, climb direct GMA NDB thence ... or for climb in visual conditions, cross Mount Washington RGNL Airport at or above 4000' MSL, then on course 250° to GMA NDB, thence ...

... climb in GMA NDB holding pattern (hold West, left turns, 104° bearing inbound) to cross GMA NDB at or above 5500' MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 10**, train beginning 7' from DER, 467' left of centerline, up to 23' AGL/1125' MSL. Bush 52' from DER, 373' right of centerline, 10' AGL/1082' MSL. Trees beginning 61' from DER, left and right of centerline, up to 100' AGL/1418' MSL. Rising terrain beginning 153' from DER, left and right of centerline, up to 1185' MSL. Poles beginning 686' from DER, 379' left of centerline, 45' AGL/1128' MSL. **Rwy 28**, train beginning 7' from DER, 469' right of centerline, up to 23' AGL/1085' MSL. Vehicles on road beginning 8' from DER, left and right of centerline, up to 15' AGL/1097' MSL. Rising terrain beginning 213' from DER, 485' left of centerline, up to 1303' MSL. Trees beginning 269' from DER, left and right of centerline, up to 100' AGL/1438' MSL.

WILLIMANTIC, CT WINDHAM (IJD)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 6 14149 (FAA)

TAKEOFF MINIMUMS: **Rwy 9**, std. w/ min. climb of 411' per NM to 900, or 1100-2½ for climb in visual conditions. **Rwy 18**, 300-2 or std. w/ min. climb of 434' per NM to 700. **Rwy 27**, 300-2 or std. w/ min. climb of 270' per NM to 800. **Rwy 36**, std. w/ min. climb of 405' per NM to 700, or 1100-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 089° to 900 before proceeding on course, or for climb in visual conditions cross Windham Airport at or above 1200 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 18**, climb heading 170° to 1000 before turning right. **Rwy 27**, climb heading 269° to 800 before proceeding on course. **Rwy 36**, climb heading 358° to 700 before proceeding on course, or for climb in visual conditions cross Windham Airport at or above 1200 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 9**, vehicle on road beginning 22' from DER, 461' right of centerline, up to 15' AGL/292' MSL. Trees beginning 29' from DER, 92' right of centerline, up to 52' AGL/301' MSL. Vehicle on road beginning 66' from DER, 188' left of centerline, up to 15' AGL/292' MSL. Fence 75' from DER, 196' right of centerline, 6' AGL/277' MSL. Poles beginning 284' from DER, left and right of centerline, up to 51' AGL/322' MSL. Trees beginning 466' from DER, 229' right of centerline, up to 88' AGL/349' MSL. Vehicle on road beginning 1110' from DER, left and right of centerline, up to 15' AGL/299' MSL. Trees beginning 1147' from DER, left and right of centerline, up to 80' AGL/376' MSL. Catenary beginning 1305' from DER, 126' right of centerline, up to 41' AGL/310' MSL. Trees beginning 4005' from DER, left and right of centerline, up to 80' AGL/587' MSL. Trees beginning 1.1 NM from DER, left and right of centerline, up to 80' AGL/668' MSL. **Rwy 18**, vehicle in parking lot 17' from DER, 264' left of centerline, 15' AGL/264' MSL. Trees beginning 47' from DER, 66' right of centerline, up to 80' AGL/315' MSL. Trees beginning 123' from DER, 45' left of centerline, up to 80' AGL/326' MSL. Pole 413' from DER, 147' left of centerline, 30' AGL/279' MSL. Trees beginning 2097' from DER, 19' right of centerline, up to 80' AGL/412' MSL. Trees beginning 2901' from DER, 81' left of centerline, up to 80' AGL/418' MSL. Trees beginning 1.6 NM from DER, 2908' left of centerline, up to 80' AGL/516' MSL. **Rwy 27**, trees beginning 122' from DER, 117' left of centerline, up to 63' AGL/272' MSL. Trees beginning 134' from DER, 126' right of centerline, up to 55' AGL/264' MSL. Trees beginning 193' from DER, left and right of centerline, up to 82' AGL/317' MSL. Trees beginning 2981' from DER, 442' right of centerline, up to 83' AGL/539' MSL. **Rwy 36**, tree 31' from DER, 502' left of centerline, 93' AGL/312' MSL. Trees beginning 130' from DER, 157' right of centerline, up to 99' AGL/329' MSL. Trees beginning 195' from DER, 22' left of centerline, up to 103' AGL/316' MSL. Trees beginning 4742' from DER, 1397' left of centerline, up to 80' AGL/546' MSL.

01 FEB 2018 to 01 MAR 2018

01 FEB 2018 to 01 MAR 2018

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

18032

NE-1

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

18032

WINDSOR LOCKS, CT

BRADLEY INTL (BDL)

**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 10154 (FAA)**

TAKEOFF MINIMUMS: **Rwy 33**, std. w/ min. climb of 326' per NM to 1000, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, Climb heading 013° to 1000 before turning left. **Rwy 33**, Climb heading 328° to 1000 or for climb in visual conditions: cross Bradley Intl airport at or above 1200 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 1**, vehicle on roadway 342' from DER, 564' left of centerline, 15' AGL/184' MSL. Trees beginning 441' from DER, 493' left of centerline, up to 100' AGL/269' MSL. Trees beginning 1844' from DER, 45' right of centerline, up to 100' AGL/299' MSL. **Rwy 6**, trees beginning 21' from DER, 464' left of centerline, up to 100' AGL/249' MSL. Trees beginning 1956' from DER, 921' right of centerline, up to 100' AGL/239' MSL. **Rwy 15**, vehicle on roadway 531' from DER, 606' left of centerline, up to 15' AGL/186' MSL. Trees beginning 2341' from DER, 767' left of centerline, up to 100' AGL/244' MSL. Vehicle on roadway 429' from DER, 572' right of centerline, up to 15' AGL/184' MSL. Tree 1520' from DER, 786' right of centerline, up to 100' AGL/259' MSL. **Rwy 24**, trees beginning 3066' from DER, 599' left of centerline, up to 100' AGL/269' MSL. Obstruction light on fence 1239' from DER, 784' left of centerline, up to 45' AGL/215' MSL. Trees beginning 2345' from DER, 489' right of centerline, up to 100' AGL/299' MSL. **Rwy 33**, trees beginning 1590' from DER, 275' left of centerline, up to 100' AGL/256' MSL. Tower 2.4 NM from DER, 3534' left of centerline, 104' AGL/774' MSL. Trees beginning 1618' from DER, 264' right of centerline, up to 100' AGL/263' MSL.

WISCASSET, ME

WISCASSET (IWI)

**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 10154 (FAA)**

TAKEOFF MINIMUMS: **Rwy 7**, 300-2 or std. with a min. climb of 232' per NM to 400, or alternatively, with standard TAKEOFF minimums and a normal 200' per NM climb gradient. TAKEOFF must occur no later than 2100' prior to DER.

TAKEOFF OBSTACLE NOTES: **Rwy 7**, trees beginning 115' from DER, right of and left of centerline, up to 80' AGL/149' MSL. Vehicle on road, 537' from DER, right and left of centerline, 17' AGL/76' MSL. T-L towers beginning 3144' from DER, right and left of centerline, 141' AGL/206' MSL. Trees beginning 3643' from DER, 1311' right of centerline, up to 80' AGL/179' MSL. Pole 400' from DER, 500' left of centerline, 35' AGL/85' MSL. Trees beginning 1.38 NM from DER, 285' right of centerline, up to 80' AGL/299' MSL. **Rwy 25**, vehicles on roads beginning 30' from DER, right and left of centerline, 15' AGL/84' MSL. Trees beginning 739' from DER, 111' left of centerline, up to 80' AGL/149' MSL. Trees beginning 501' from DER, 252' right of centerline, up to 80' AGL/189' MSL.

WORCESTER, MA

WORCESTER RGNL (ORH)

**TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 8 10070 (FAA)**

TAKEOFF MINIMUMS: **Rwy 29**, 300-1 or std. with a min. climb of 323' per NM to 1300. **Rwy 33**, 700-3 or std. with a min. climb of 394' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 29**, climb heading 289° to 1600 before turning right. **Rwy 33**, climb heading 333° to 2000 before turning right.

TAKEOFF OBSTACLE NOTES: **Rwy 15**, trees beginning 130' from DER, 333' right of centerline, up to 100' AGL/1011' MSL. Trees beginning 63' from DER, 250' left of centerline, up to 100' AGL/1003' MSL. **Rwy 29**, trees beginning 55' from DER, 464' right of centerline, up to 100' AGL/1192' MSL. Trees beginning 617' from DER, 621' left of centerline, up to 100' AGL/1109' MSL. **Rwy 33**, trees beginning 212' from DER, 124' left of centerline, up to 100' AGL/1043' MSL. Trees beginning 499' from DER, 339' right of centerline, up to 100' AGL/1418' MSL. Rising terrain beginning 1.5 NM from DER, 1491' right of centerline, up to 1385' MSL. Rod on pole 1.3 NM from DER, 1325' left of centerline, up to 76' AGL/1224' MSL. Rod on pole 1.4 NM from DER, 195' right of centerline, up to 90' AGL/1257' MSL. Rod on pole 1.6 NM from DER, 2120' right of centerline, up to 107' AGL/1402' MSL. Tower 1.8 NM from DER, 3415' right of centerline, up to 106' AGL/1500' MSL. Tower 2.3 NM from DER, 4087' right of centerline, up to 366' AGL/1674' MSL.

01 FEB 2018 to 01 MAR 2018

01 FEB 2018 to 01 MAR 2018

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)**

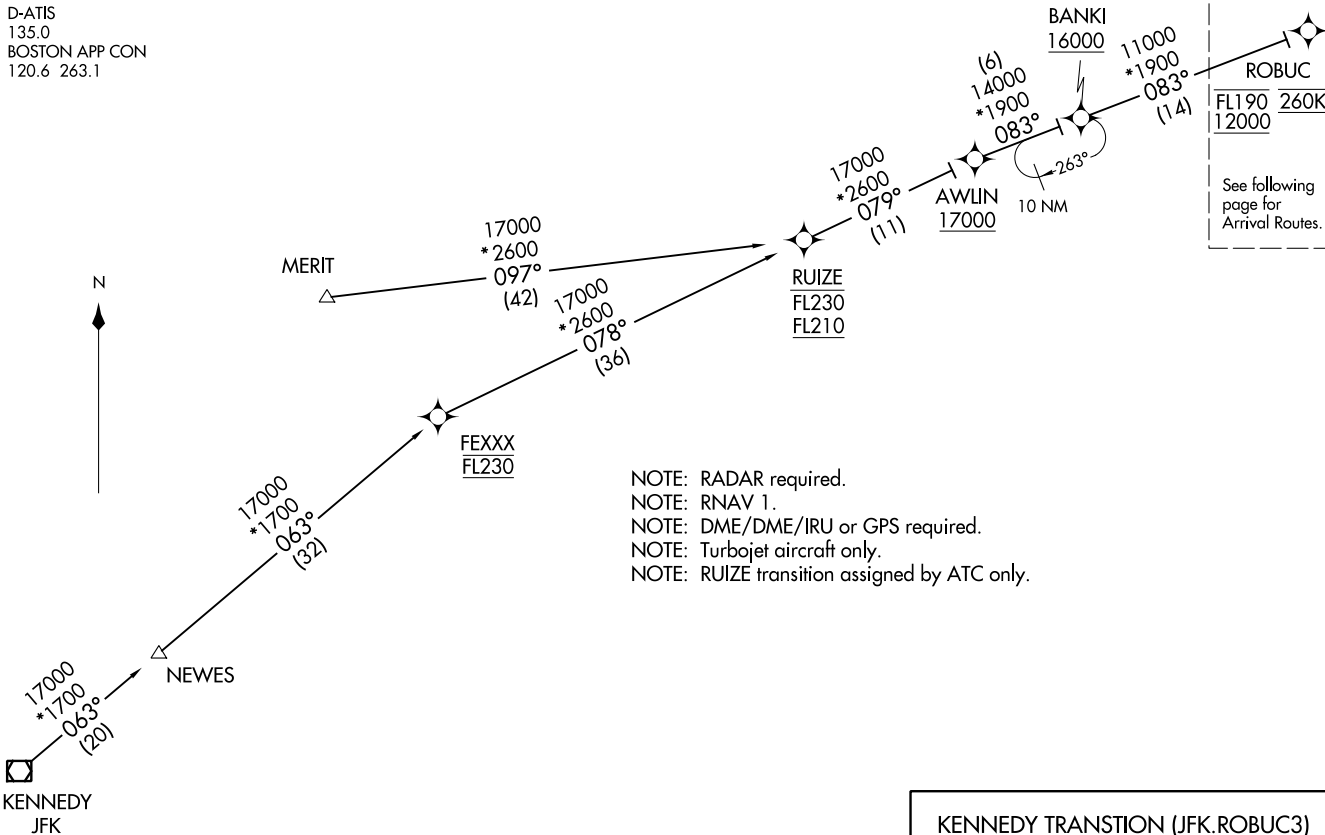
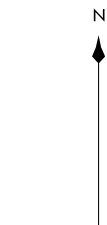
18032

NE-1

D-ATIS
135.0
BOSTON APP CON
120.6 263.1

ROBUC THREE ARRIVAL (RNAV) Transition Routes
(ROBUC.ROBUC3) 120CTT7

BOSTON, MASSACHUSETTS
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)



- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: RUIZE transition assigned by ATC only.

KENNEDY TRANSITION (JFK.ROBUC3)
MERIT TRANSITION (MERIT.ROBUC3)
RUIZE TRANSITION (RUIZE.ROBUC3)

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

(ROBUC.ROBUC3) 17285
 AL-58 (FAA)
 GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
 BOSTON, MASSACHUSETTS
 ROBUC THREE ARRIVAL (RNAV) Transition Routes

WOONS TWO ARRIVAL

AL-58 (FAA)

BOSTON, MASSACHUSETTS


BOSTON D-ATIS ARR
 135.0
 NORWOOD ATIS
 119.95
 BOSTON APP CON
 120.6 263.1

GENERAL EDWARD
 LAWRENCE LOGAN INTL

BOSTON
 112.7 BOS 
 Chan 74

WOONS
 N41°57.03'-W71°30.42'
 BOS Props: Expect to cross
 at 7,000'
 OWD, 1B9, GHG: Expect to
 cross at 3,000'


NORWOOD
 MEMORIAL
 MARSHFIELD MUNI-
 GEORGE HARLOW FIELD
 MANSFIELD
 MUNI

PUTNAM
 117.4 PUT 
 Chan 121


FOSTY
 N41°50.59'
 W71°38.52'

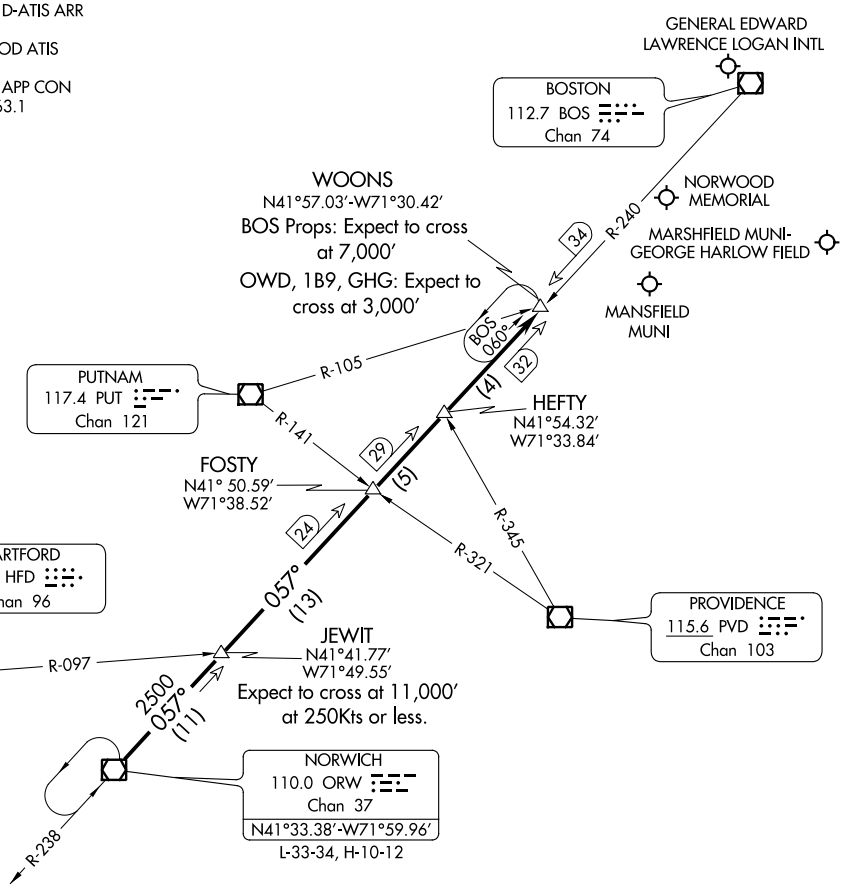
HEFTY
 N41°54.32'
 W71°33.84'

HARTFORD
 114.9 HFD 
 Chan 96

PROVIDENCE
 115.6 PVD 
 Chan 103

JEWIT
 N41°41.77'
 W71°49.55'
 Expect to cross at 11,000'
 at 250Kts or less.

NORWICH
 110.0 ORW 
 Chan 37
 N41°33.38'-W71°59.96'
 L-33-34, H-10-12



NOTE: Chart not to scale

NOTE: Applicable to props landing BOS and all aircraft landing OWD, 1B9 and GHG.
 Applicable 11,000 feet and above.

From over ORW VOR/DME via ORW R-057 to WOONS INT. Expect radar vectors to final.

NE-1, 01 FEB 2018 to 01 MAR 2018

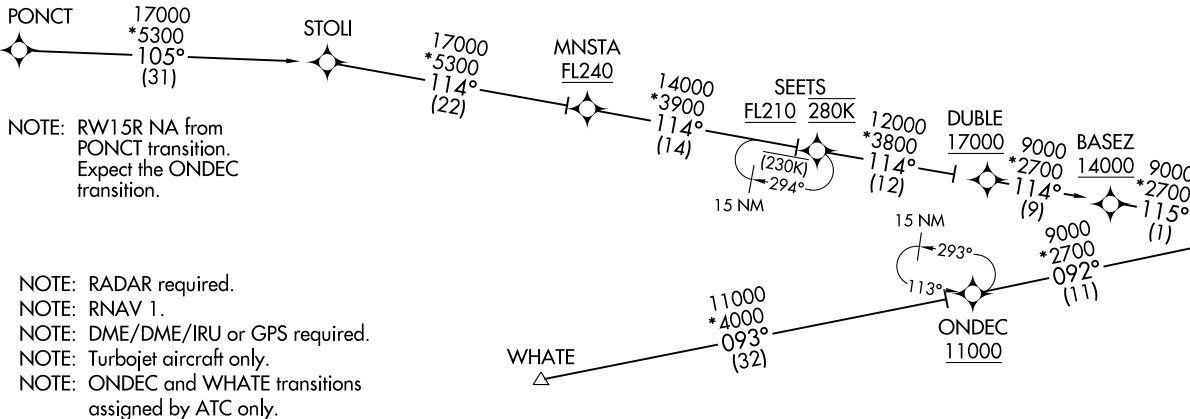
NE-1, 01 FEB 2018 to 01 MAR 2018

WOONS TWO ARRIVAL

BOSTON, MASSACHUSETTS

JFUND TWO ARRIVAL (RNAV) Transition Routes
(JFUND.JFUND2) 120OCT17
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS

D-ATIS
135.0
BOSTON APP CON
120.6 263.1



NOTE: RW15R NA from PONCT transition. Expect the ONDEC transition.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: ONDEC and WHATE transitions assigned by ATC only.

NOTE: Not to scale.

(CONTINUED ON FOLLOWING PAGE)

ONDEC TRANSITION (ONDEC.JFUND2);
PONCT TRANSITION (PONCT.JFUND2);
WHATE TRANSITION (WHATE.JFUND2);

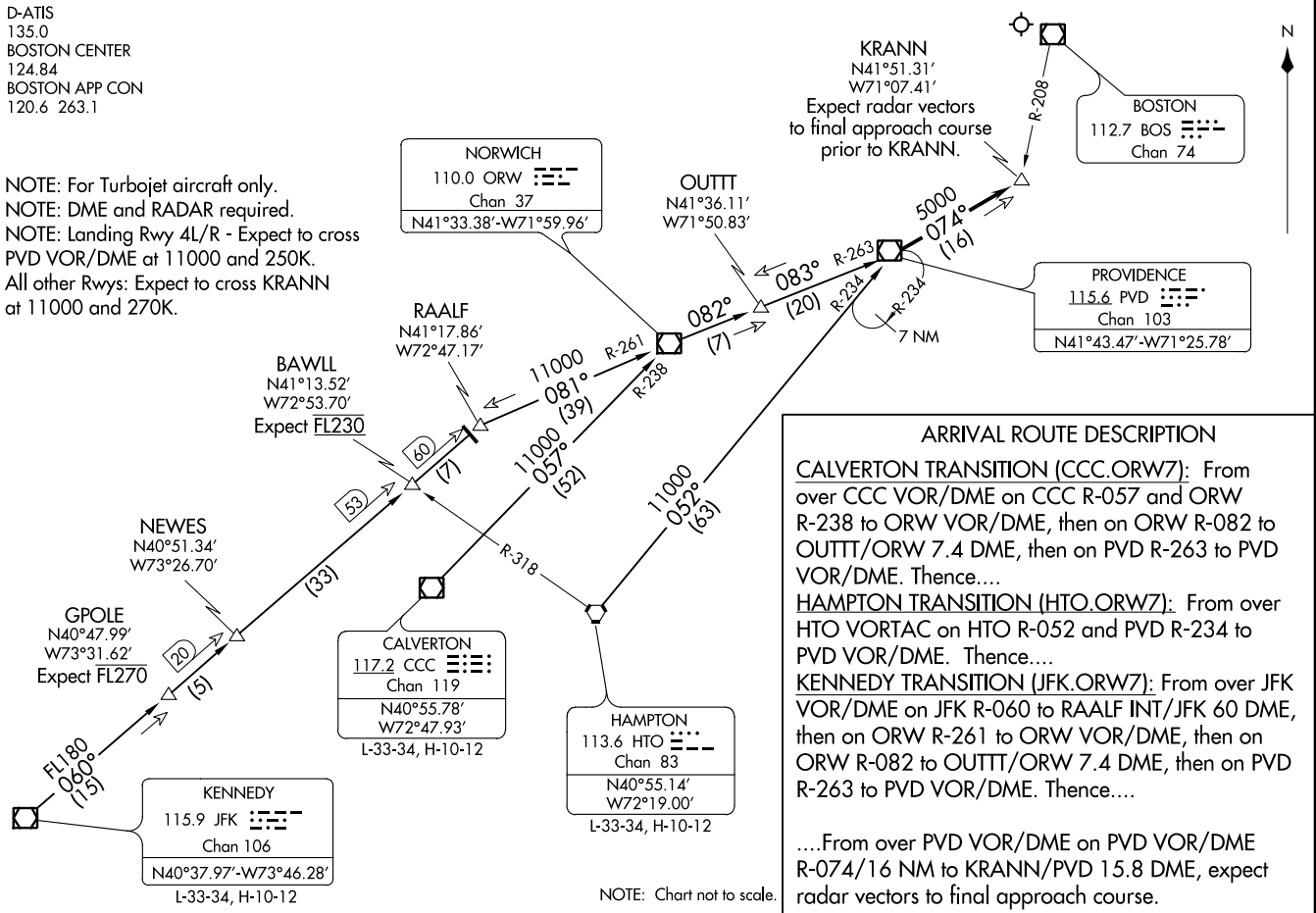
(JFUND.JFUND2) 17285
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
AL-58 (FAA) BOSTON, MASSACHUSETTS

NORWICH SEVEN ARRIVAL
(ORW.ORW7) 21 JUL 16

NORWICH SEVEN ARRIVAL
(ORW.ORW7) 17285

D-ATIS
135.0
BOSTON CENTER
124.84
BOSTON APP CON
120.6 263.1

NOTE: For Turbojet aircraft only.
NOTE: DME and RADAR required.
NOTE: Landing Rwy 4L/R - Expect to cross PVD VOR/DME at 11000 and 250K.
All other Rwys: Expect to cross KRANN at 11000 and 270K.



NOTE: Chart not to scale.

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS
A1-58 (FAA)

ARRIVAL ROUTE DESCRIPTION

LANDING RUNWAY 4R/L: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 112° to cross SPYSD at 7000 and at 220K, then on track 170° to GRIFI, then on track 213° to cross GGABE at 6000 and at 220K, then on track 213° to cross JOBEE at 6000 and at 210K, then on track 213°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 15R: From JFUND on track 090° to cross BADCA at or above 9000 and at 250K, then on track 090° to cross WACHU at 7000 and at 210K, then on track 121° to SSAAM, then on track 148° to AADMS, then on track 148°. Expect RADAR vectors to final approach course.

LANDING RWY 22R/L: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 079° to cross ISLAY at 6000 and at 220K, then on track 035° to cross LWLND at 6000 and at 210K, then on track 035°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 27: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 112° to cross SPYSD at 7000 and at 220K, then on track 115° to REVER, then on track 093° to cross SEHAG at 6000 and at 210K, then on track 093°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 32, 33L: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 112° to cross SPYSD at 7000 and at 220K, then on track 144° to cross BRODI at or below 6000, then on track 144° to cross BECHH at 5000 and at 220K, then on track 150° to cross SCITU at 5000 and at 210K, then on track 150°. Expect RADAR vectors to final approach course.

NE-1, 01 FEB 2018 to 01 MAR 2018

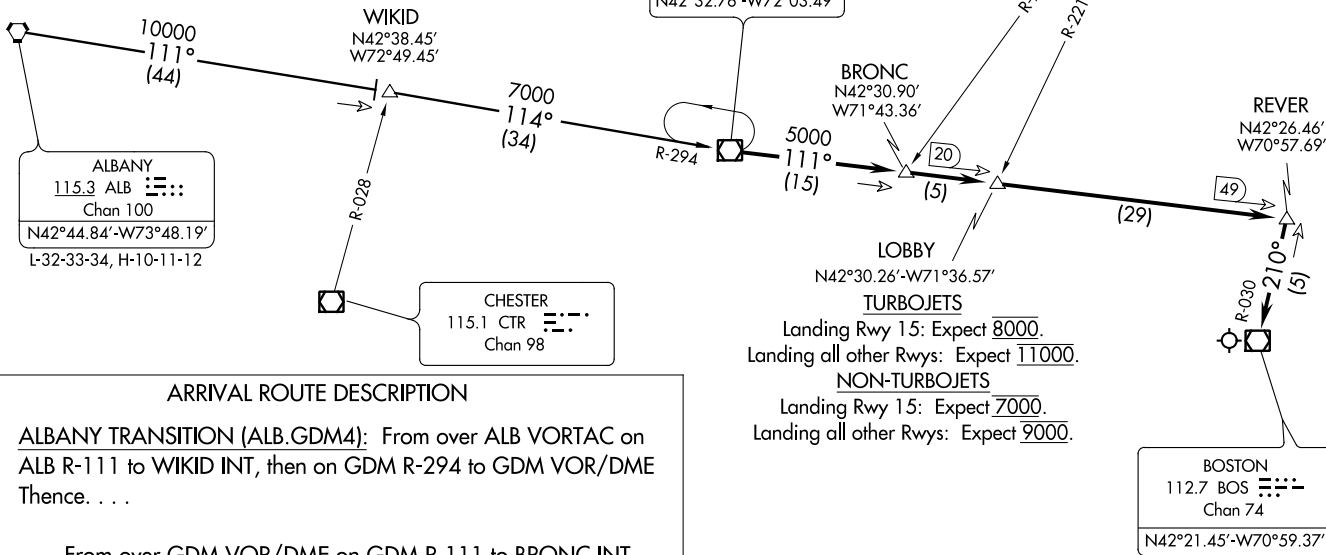
NE-1, 01 FEB 2018 to 01 MAR 2018

GARDNER FOUR ARRIVAL
(GDM, GDM4) 15DEC11

BOSTON, MASSACHUSETTS
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

D-ATIS
135.0
BOSTON APP CON
118.25 263.1

NOTE: Radar required.



ARRIVAL ROUTE DESCRIPTION

ALBANY TRANSITION (ALB.GDM4): From over ALB VORTAC on ALB R-111 to WIKID INT, then on GDM R-294 to GDM VOR/DME Thence. . . .

. . . .From over GDM VOR/DME on GDM R-111 to BRONC INT, then to LOBBY INT, then to REVER INT, then on BOS R-030 to BOS VOR/DME. Expect radar vectors to final approach course prior to BOS VOR/DME.

MANCHESTER
114.4 MHT
Chan 91

GARDNER
110.6 GDM
Chan 43
N42°32.76'-W72°03.49'

BRONC
N42°30.90'
W71°43.36'

LOBBY
N42°30.26'-W71°36.57'

TURBOJETS
Landing Rwy 15: Expect 8000.
Landing all other Rwys: Expect 11000.

NON-TURBOJETS
Landing Rwy 15: Expect 7000.
Landing all other Rwys: Expect 9000.

REVER
N42°26.46'
W70°57.69'

BOS
112.7 BOS
Chan 74
N42°21.45'-W70°59.37'

ALBANY
115.3 ALB
Chan 100
N42°44.84'-W73°48.19'
L-32-33-34, H-10-11-12

CHESTER
115.1 CTR
Chan 98

WIKID
N42°38.45'
W72°49.45'

10000
111°
(44)

7000
114°
(34)

5000
111°
(15)

2100
210°
(5)

2100
210°
(5)

R-294

R-292

R-221

R-220

R-030

(20)

(5)

(29)

(49)

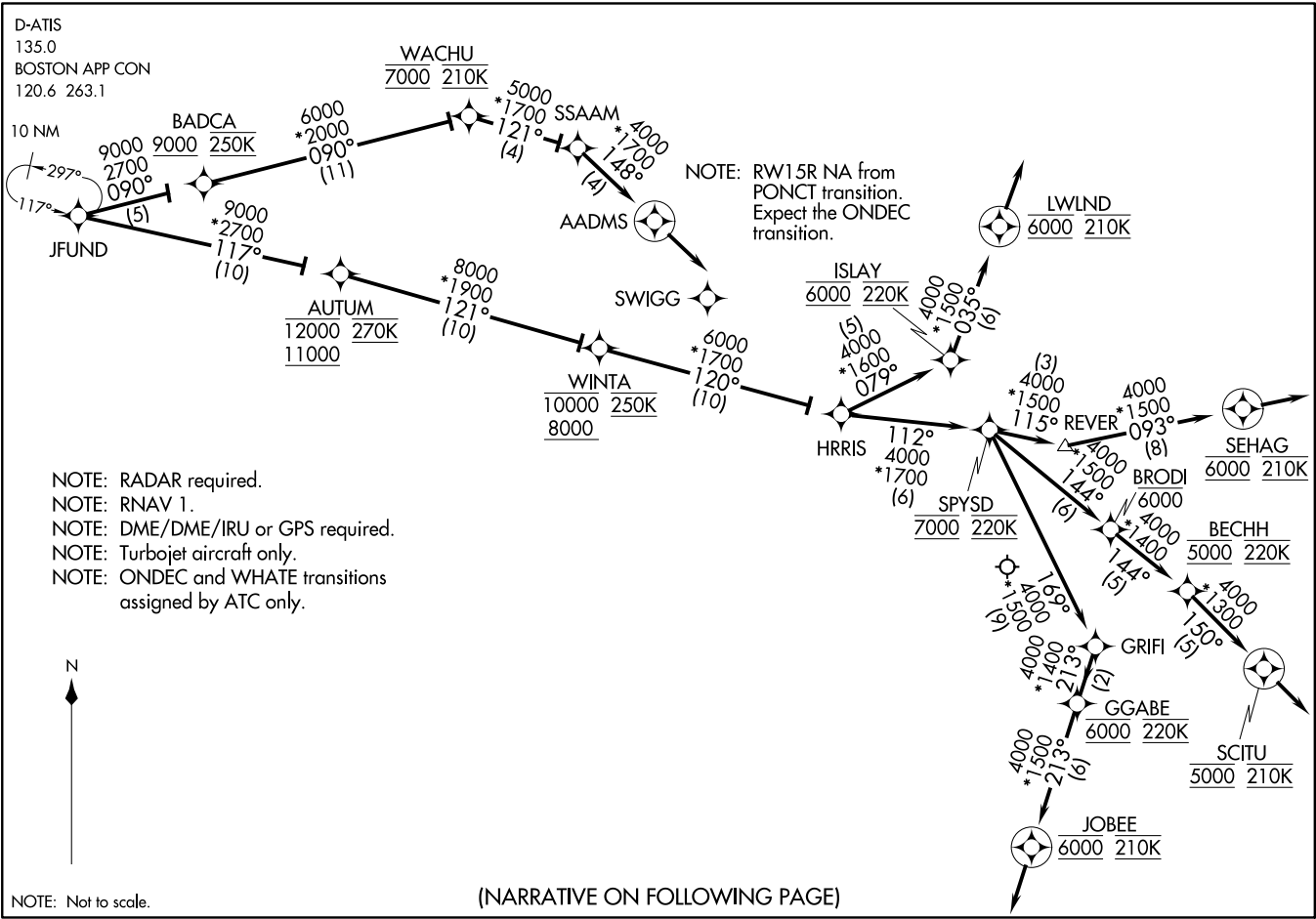
(5)

NOTE: Chart not to scale.

(GDM, GDM4) 17117
GARDNER FOUR ARRIVAL

BOSTON, MASSACHUSETTS
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
AL-58 (FAA)

JFUND TWO ARRIVAL (RNAV) Arrival Routes
(JFUND.JFUND2) 120OCT17
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
BOSTON, MASSACHUSETTS

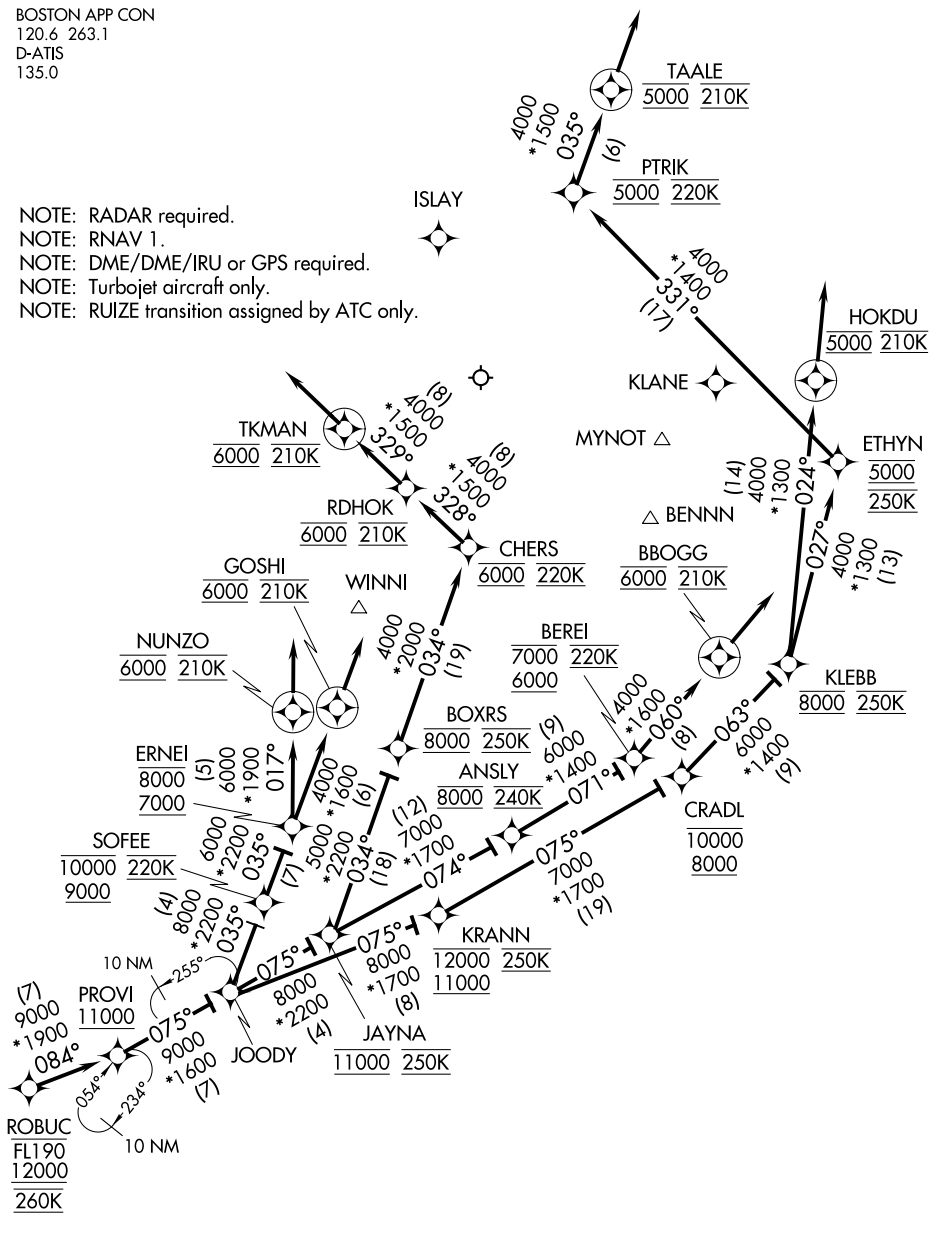


(JFUND.JFUND2) 17285
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)
AL-58 (FAA)
BOSTON, MASSACHUSETTS

ROBUC THREE ARRIVAL (RNAV) Arrival Routes

BOSTON APP CON
120.6 263.1
D-ATIS
135.0

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: RUIZE transition assigned by ATC only.



NE-1, 01 FEB 2018 to 01 MAR 2018

NE-1, 01 FEB 2018 to 01 MAR 2018

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

ROBUC THREE ARRIVAL (RNAV) Arrival Routes

ARRIVAL ROUTE DESCRIPTION

From ROBUC on track 084° to cross PROVI at or above 11000, then on track 075° to JOODY. Then on assigned runway transition.

LANDING RWY 4L: From JOODY on track 035° to cross SOFEE between 9000 and 10000 and at 220K, then on track 035° to cross ERNEI between 7000 and 8000, then on track 017° to cross NUNZO at 6000 and at 210K, then on track 017°. Expect RADAR vectors to final approach course.

LANDING RWY 4R: From JOODY on track 035° to cross SOFEE between 9000 and 10000 and at 220K, then on track 035° to cross ERNEI between 7000 and 8000, then on track 035° to cross GOSHI at 6000 and at 210K, then on track 035°. Expect RADAR vectors to final approach course.

LANDING RWY 15R: From JOODY on track 075° to cross JAYNA at 11000 and at 250K, then on track 034° to cross BOXRS at 8000 and at 250K, then on track 034° to cross CHERS at 6000 and at 220K, then on track 328° to cross RDHOK at 6000 and at 210K, then on track 329° to cross TKMAN at 6000 and at 210K, then on track 329°. Expect RADAR vectors to final approach course.

LANDING RWY 22L/R: From JOODY on track 075° to cross KRANN between 11000 and 12000 and at 250K, then on track 075° to cross CRADL between 8000 and 10000, then on track 063° to cross KLEBB at 8000 and at 250K, then on track 027° to cross ETHYN at 5000 and at 250K, then on track 331° to cross PTRIK at 5000 and at 220K, then on track 035° to cross TAALE at 5000 and at 210K, then on track 035°. Expect RADAR vectors to final approach course.

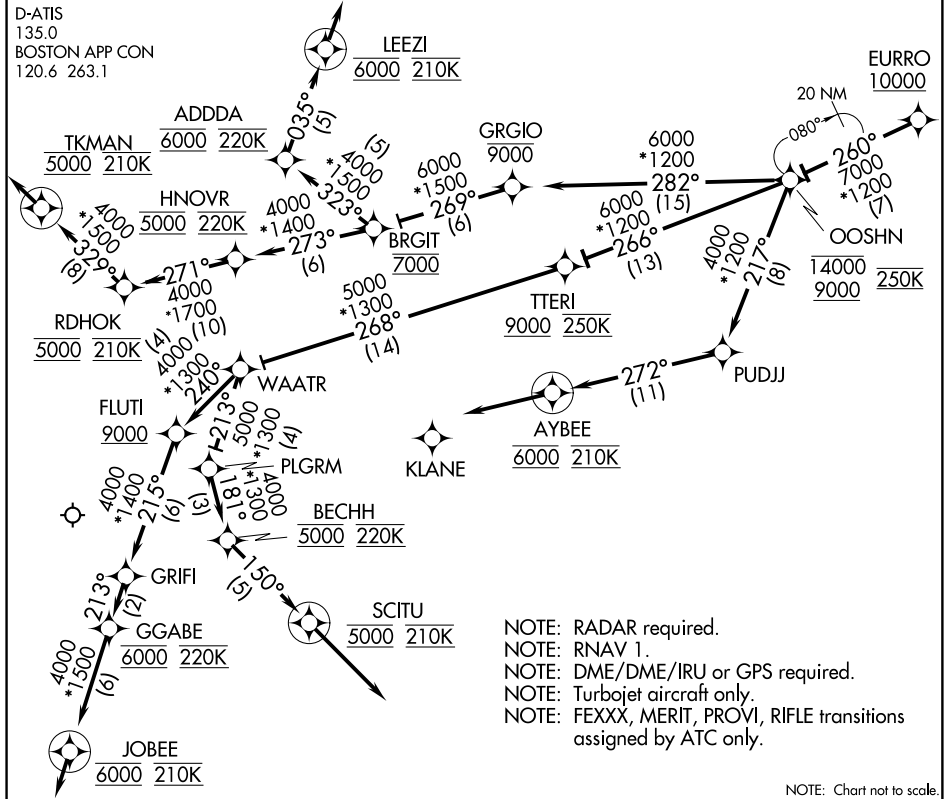
LANDING RWY 27: From JOODY on track 075° to cross KRANN between 11000 and 12000 and at 250K, then on track 075° to cross CRADL between 8000 and 10000, then on track 063° to cross KLEBB at 8000 and at 250K, then on track 024° to cross HOKDU at 5000 and at 210K, then on track 024°. Expect RADAR vectors to final approach course.

LANDING RWYS 32, 33L: From JOODY on track 075° to cross JAYNA at 11000 and at 250K, then on track 074° to cross ANSLY at 8000 and at 240K, then on track 071° to cross BEREI between 6000 and 7000 and at 220K, then on track 060° to cross BBOGG at 6000 and at 210K, then on track 060°. Expect RADAR vectors to final approach course.

NE-1, 01 FEB 2018 to 01 MAR 2018

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OOSHNS FIVE ARRIVAL (RNAV) Arrival Routes



ARRIVAL ROUTE DESCRIPTION

From EURO on track 260° to cross OOSHNS between 9000 and 14000 and at 250K.

Landing Rwy 4L/R: From OOSHNS on track 266° to cross TTERI at or above 9000 and at 250K, then on track 268° to WAATR, then on track 240° to cross FLUTI at or above 9000, then on track 215° to GRIFI, then on track 213° to cross GGABE at 6000 and at 220K, then on track 213° to cross JOBEE at 6000 and at 210K, then on track 213°. Expect RADAR vectors to final approach course.

Landing Rwy 15R: From OOSHNS on track 282° cross GRGIO at or below 9000, then on track 269° to cross BRGIT at 7000, then on track 273° to cross HNOVR at 5000 and at 220K, then on track 271° to cross RDHOK at 5000 and at 210K, then on track 329° to cross TKMAN at 5000 and at 210K, then on track 329°. Expect RADAR vectors to final approach course.

Landing Rwy 22L/R: From OOSHNS on track 282° to cross GRGIO at or below 9000, then on track 269° to cross BRGIT at 7000, then on track 323° to cross ADDDA at 6000 and at 220K, then on track 035° to cross LEEZI at 6000 and at 210K, then on track 035°. Expect RADAR vectors to final approach course.

Landing Rwy 27: From OOSHNS on track 217° to PUDJJ, then on track 272° to cross AYBEE at 6000 and at 210K, then on track 272°. Expect RADAR vectors to final approach course.

Landing Rwy 32, 33L: From OOSHNS on track 266° to cross TTERI at or above 9000 at at 250K, then on track 268° to WAATR, then on track 213° to PLGRM, then on track 181° to cross BECHH at 5000 and at 220K, then on track 150° to cross SCITU at 5000 and at 210K, then on track 150°. Expect RADAR vectors to final approach course.

OOSHNS FIVE ARRIVAL (RNAV) Arrival Routes

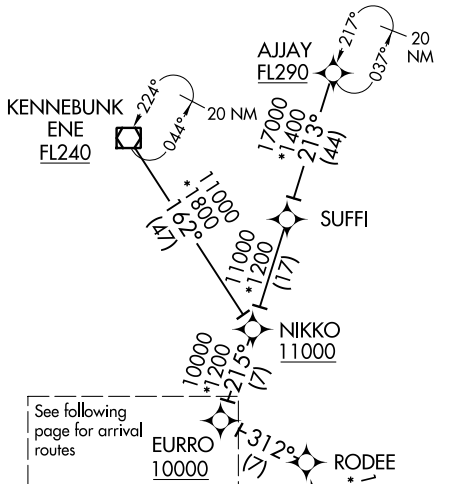
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OOSH5 FIVE ARRIVAL (RNAV) Transition Routes

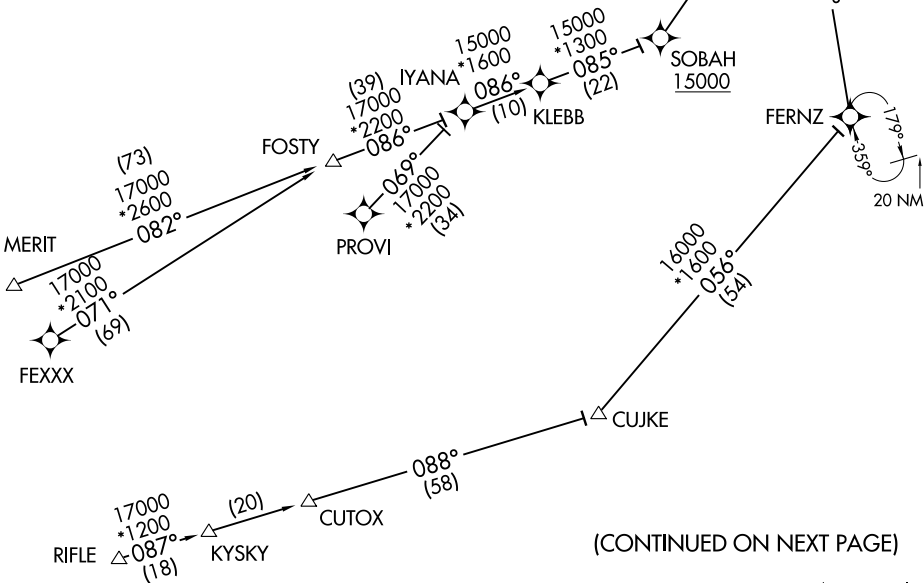
D-ATIS
135.0
BOSTON APP CON
120.6 263.1

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: FEXXX, MERIT, PROVI, RIFLE transitions assigned by ATC only.



See following page for arrival routes

- AJJAY TRANSITION (AJJAY.OOSH5)
- FERNZ TRANSITION (FERNZ.OOSH5)
- FEXXX TRANSITION (FEXXX.OOSH5)
- KENNEBUNK TRANSITION (ENE.OOSH5)
- MERIT TRANSITION (MERIT.OOSH5)
- PROVI TRANSITION (PROVI.OOSH5)
- RIFLE TRANSITION (RIFLE.OOSH5)



(CONTINUED ON NEXT PAGE)

NOTE: Chart not to scale.

OOSH5 FIVE ARRIVAL (RNAV) Transition Routes

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NE-1, 01 FEB 2018 to 01 MAR 2018